



THE HATCHES WERE OPENED AND THEY RUSHED ON DECK. On a Torn-Away World Page~239

ON A TORN-AWAY WORLD

Or

The Captives of the Great Earthquake

BY

ROY ROCKWOOD

AUTHOR OF "THROUGH THE AIR TO THE NORTH POLE," 'LOST
ON THE MOON." "THE SPEEDWELL BOYS SERIES,"
"DAVE DASHAWAY SERIES," ETC.

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ON A TORN-AWAY WORLD

CHAPTER I

SHOT INTO THE AIR

"HURRAH!" shouted Jack Darrow, flicking the final drops of lacquer from the paintbrush he had been using. "That's the last stroke. She's finished!"

"I guess we've done all we can to her before her trial trip," admitted his chum, Mark Sampson, but in a less confident tone.

"You don't see anything wrong with her, old croaker; do you?" demanded Jack, laughing as usual.

"'The proof of the pudding is in the eating thereof; not in chewing the puddingbag string'," quoted Mark, still with a serious countenance.

But like Jack he stood off from the great body of the wonderful airship, and looked the completed task over with some satisfaction. Having emergency wings, she was also a plane. She was white all over and her name was the Snowbird. Jack and Mark had spent most of their time during this vacation from their college in building this flying machine, which was veri-

tably an up-to-the-minute aerial vehicle, built for

both speed and carrying capacity.

The hangar in which the machine had been built was connected with Professor Amos Henderson's laboratory and workshop, hidden away on a lonely point on the seacoast, about ten miles from the town of Easton, Maine. At this spot had been built many wonderful things—mainly the inventions of the boys' friend and protector, Professor Henderson; but the Snowbird, upon which Jack and Mark now gazed so proudly, was altogether the boys' own work.

The sliding door of the hangar opened just behind the two boys and a black face appeared.

"Is eeder ob you boys seen ma Shanghai rooster?" queried the black man, plaintively. "I suah can't fin' him nowhars."

"What did you let him out of his coop for?" demanded Mark. "You're always bothering us about that rooster, Washington. He is as elusive as the Fourth Dimension."

"I dunno wot dat 'fourth condension' is, Massa Mark; but dat rooster is suah some conclusive. When I lets him out fo' an airin' he hikes right straight fo' some farmer's hen-yard, an' den I haster hunt fo' him."

"When you see him starting on his rambles, Wash, why don't you call him back?" demanded Jack Darrow, chuckling.

"If I did, Massa Jack, I 'spect he wouldn't know I was a-hollerin' fo' him."

"How's that? Doesn't he know his name?"

"I don't fo' suah know wedder he does or not," returned the darkey, scratching his head. "Ye see, it's a suah 'nuff longitudinous name, an' I dunno wedder he remembers it all, or not."

"He's got a bad memory; has he?" said Mark, turning to smile at Washington White, too, for Professor Henderson's old servant usually af-

forded the boys much amusement.

"Dunno 'bout his memory," grunted Wash; "he's gotter good forgettery, suah 'nuff. Leastways, when he starts off on one o' dese perambulationaries ob his, he fergits ter come back."

"Let's see," said Jack, nudging his chum, "what is that 'longitudinous' name which has been hitched onto that wonderful bird, Wash? I know it begins with the discovery of America and wanders down through the ages to the present day; but a part of it has slipped my memory—or, perhaps I should say, 'forgettery'."

With a perfectly serious face the darkey de-

claimed:

"Christopher Columbus Amerigo Vespucci George Washington Abraham Lincoln Ulysses Grant Garibaldi Thomas Edison Guglielmo Marconi Butts."

"For goodness sake! Will you listen to

that!" gasped Mark, while Jack went off into a roar of laughter.

"Don't-don't it make your jaw ache to say it, Wash?" cried the older lad when he could

speak.

"Not a-tall! not a-tall!" rejoined the darkey, shaking his woolly head. "I has practised all ma life speakin' de berry longest words in de English language-"

"And mis-pronouncing them," giggled Jack.

"Mebbe, Massa Tack, mebbe!" agreed Washington, briskly. "But de copy book say dat it is better to have tried an' failed dan nebber to have tried at all."

"And did you ever try calling the rooster back, when he starts to play truant, with all that mouthful of words?" queried the amused Mark.

"Yes, indeedy," said Washington, seriously.

"Don't he mind, then?"

"I should think he'd be struck motionless in his tracks," chuckled Jack.

"No, sah," said Washington. "Dat's de only fault I kin fin' with dat name—it don't 'pear to stop him. An' befo' I kin git it all out he's ginerally out ob sight!"

That sent both boys off into another paroxysm of laughter. Meanwhile the darkey had come into the great shed and was slowly walking around the flying machine.

"What do you think of her, Wash, now that she's finished?" asked Mark.

"Is she done done?" queried the darkey, won-

deringly.

"She certainly is," agreed Jack.

"De chile is bawn and done named Nebbercud-

sneezer, heh? Well! well!"

"No; it's named the Snowbird," Mark retorted. "And to-morrow morning, bright and early, we shall sail on its trial trip. The professor is going with us, Washington. Of course, you will come, too?"

"Lawsy me! don't see how I kin!" stammered Washington White, who always wished to be considered very brave, but who was really as timid as a hare. "Yo' see, Massa Mark, I 'spect

I shall be right busy."

"What will you be busy at?" demanded Jack.

"Well—well, sah," said Wash, "if dat Shanghai don't come back befo', I shall hab ter go snoopin' aroun' de kentry a-huntin' fo' him. He'll be crowin' 'bout sun-up, an' he suah can't disguise his crow."

"If Andy was here, he would surely want to go with us," declared Jack to Mark. "Andy

Sudds isn't afraid of anything."

"My! my!" cried Washington. "Yo' don't fo' one moment suppose, Massa Jack, dat I's afeared; does yo'?"

"No, you're not afraid, Wash," returned Jack, chuckling. "You're only scared to death. But you go ahead and hunt your rooster. See that you keep him from flying too high, however, or we'll run him down in the Snowbird."

"Pshaw!" said Mark. "That rooster is so

fat he couldn't fly high, anyway."

"And perhaps the *Snowbird* won't fly very high; eh?" retorted Jack, letting a little anxiety creep into his voice.

"But dat rooster suah kin fly high," said Washington White, eagerly. "Yo' gemmens knows dat he's flowed as high as de moon—he, he!"

"And 'flowed' is a mighty good word, Wash," chuckled Jack. "Ah! here is the professor, Mark."

Professor Henderson was an aged man with snow white hair and beard. Although he was not physically as strong as he once was, his brain and energy were not in the least impaired by advancing years. He had taken the two lads, Jack Darrow and Mark Sampson, both orphans, under his care some years before, and under his tuition and by his aid they were much farther advanced in knowledge of the practical sciences than other boys of their age.

The professor welcomed them cordially and at their request gave a thorough scrutiny to the various mechanical contrivances that went to the make-up of the flying machine. He pronounced it, as far as could be known before a practical test, a perfect mechanism.

"And we will try it to-morrow morning, boys," he said, with almost as much enthusiasm as Jack and Mark themselves displayed. "You have completed the machine in excellent time, and I am likewise ready to make the experiment."

"What experiment, Professor?" asked the

boys in chorus.

"Haven't you noticed what I was tinkering on at the other end of the shop?" queried Professor Henderson, in surprise.

"Why, I see that you have a long steel plank there, with some kind of a compressed-air con-

trivance at one end," said Jack.

"Is that what you mean, Professor?" queried

"That, boys," said the scientist, with some pride, "is a modern catapult—an up-to-the-minute catapult which, had it been known to the ancients, would have enabled the hosts of Joshua, for instance, to batter down the walls of Jericho without the trouble of marching so many times around the city."

"And what has a compressed-air catapult got

to do with the Snowbird?" queried Jack.

"You propose launching your flying machine in the usual way," said the professor. "I see you have wheel trucks all ready to slip under her. We will not use those wheels, boys. I have a better plan. We will launch the *Snowbird* into the air from my catapult."

"Great goodness, Professor!" cried Mark.

"Is that practicable?"

"We'll know after we have tried it," retorted Professor Henderson, drily.

"How did you happen to start working on this

catapult idea?" asked Jack.

"Well, I can't tell you everything," replied the inventor, "for it is partly a secret."

"Huh," laughed Mark. "You're mysterious. You haven't joined forces with some department of our government, or with another country?"

The professor smiled, thinking how keen this young man always proved himself to be.

"You've guessed it," he replied. "And I'm

sorry I can't explain more to you."

"We understand," said Jack. "And no doubt

this machine is a super-catapult."

"True," was the answer. "Of untold use to the scientific world. For the present I shall confine testing its efficiency right in this place. Now is my chance."

"But of what advantage will it be to our flying

machine to start it in this way?"

"Stop and think, my boy," said the professor.

"Just as an aeroplane can literally be shot into the air within a very short space, so can your airship. Of course, this is not necessary, but we will be able to start the ship much faster that way than we could with just the motors."

"You'll make history, Professor," added Jack.

"Exciting headlines for the papers."

"Sure enough," said Mark enthusiastically.

"The publicity doesn't interest me," replied the scientist. "Moreover, my super-catapult must remain a secret, as I told you a while ago."

"So you really propose to launch the Snow-

bird in this way?" asked Jack.

"We will be shot into the air. If you are sure of your machine, I am sure of my catapult, and we will try the two contrivances together."

In the morning all rose bright and early and prepared the Snowbird for her trial flight. Washington White had indeed disappeared—possibly in search of his Shanghai rooster—and Andy Sudds was off on a hunt. Therefore the professor and his two young comrades essayed the trip alone.

Jack and Mark tossed a coin to see who should first guide the great air machine, and Mark won the preference. He, as well as his chum and the professor, had already donned their aeronautic uniforms, and he now strapped himself into the pilot's seat. The steering apparatus, the levers that controlled the planes, and the motor switch were all under his hand. While in flight the *Snowbird* need be under the control of but one person at a time.

The professor had rigged his catapult so that he could release the trigger from the flying machine. Mark said he was ready; the professor reached for the cord which would release the trigger.

"Start your motor, Mark, a fraction of a second before I release the compressed air," commanded Mr. Henderson. "Now!"

The motor of the flying machine buzzed faintly. Jack's eyes were on the speed indicator. He suddenly felt the great, quivering flying machine, which had been run out of the hangar on to the steel plank of the catapult, lurch forward. The feeling affected him just as the sudden dropping of an elevator from a great height affects its passengers.

The finger of the speed indicator whirled and marked forty miles an hour ere the flying machine left the steel plank, and shot into the air with the fearful force of the compressed air behind it.

Both Mark and Jack were well used to guiding aeroplanes and other air machines. But this start from the ground was much different from the easy, swooping flight of an airship as usually begun. Like an arrow the Snowbird was shot upward on a long slant. It was a moment ere Mark got the controls to working. The propellers were, of course, started with the first stroke of the motor.

But Mark Sampson was nervous; there was no denying that. At the instant when the nose of the airship should have been raised, so as to clear the tops of the forest trees and every building on the Henderson place, Mark instead guided the rapidly flying Snowbird far to the left.

It skimmed the corner of the stable by a fraction of a foot, and Jack yelled:

"Look out!"

His cry made Mark even more nervous. The tall water-tank and windmill were right in line. Before the young aviator could swerve the flying machine to escape the vane upon the roof of the tower, and the long arms of the mill, they were right upon these things!

The fast-shooting Snowbird was jarred through all her members; but she tore loose. And then, in erratic leaps and bounds, she kept on across the fields and woods towards Easton, never rising very high, but occasionally sinking so that she trailed across the treetops, threatening the whole party with death and the flying machine itself with destruction, at every jump.

CHAPTER II

MARK HANGS ON

Professor Henderson and his adopted sons—Jack Darrow and Mark Sampson—had been in many perilous situations together. Neither one nor the other was likely to display panic at the present juncture, although the flying Snow-bird was playing a gigantic game of "leap-frog" through the air.

The professor had himself constructed many wonderful machines for transportation through the air, under the ground, and both on and beneath the sea; and in them he and his young comrades had voyaged afar.

Narrated in the first volume of this series, entitled, "Through the Air to the North Pole," was the bringing together of the two boys and the professor,—how the scientist and Washington White rescued Jack and Mark after a train wreck, took them to the professor's workshop, and made the lads his special care. In that workshop was built the *Electric Monarch*, in which flying ship the party actually passed over that point

far beyond the Arctic Circle where the needle of the compass indicates the North Pole.

Later, in the submarine boat, the *Porpoise*, the professor, with his young assistants and others, voyaged under the sea to the South Pole, the details of which voyage are related in the second volume of the series, entitled "Under the Ocean to the South Pole."

In the third volume, "Five Thousand Miles Underground," is related the building of that strange craft, the Flying Mermaid, and how the voyagers journeyed to the center of the earth. The perils connected with this experience satisfied all of them, as far as adventure went, for some time. Jack and Mark prepared for, and entered, the Universal Electrical and Chemical College.

Before the first year of their college course was completed, however, Professor Henderson, in partnership with a brother scientist, Professor Santell Roumann, projected and carried through a marvelous campaign with the aid of Jack and Mark, which is narrated in our fourth volume, entitled, "Through Space to Mars." In this book is told how the projectile, Annihilator, was built and, the projectile being driven by the Etherium motor, the party was transported to the planet Mars.

Later, because of some knowledge obtained

from a Martian newspaper by Jack, they all made a trip to the moon in search of a field of diamonds, and their adventures as related in "Lost on the Moon" were of the most thrilling kind. The projectile brought them safely home again and they had now, for some months, been quietly pursuing their usual avocations.

The knowledge Jack Darrow and Mark Sampson had gained from textbooks, and much from observation and the teachings of Professor Henderson, had aided the lads in the building of the Snowbird. It was the first mechanism of importance that Jack and Mark had ever completed, and they had been quite confident, before the flying machine was shot from Mr. Henderson's catapult, that it was as near perfect as an untried aeroplane could be.

"Hang on, Mark!" yelled Jack, as the great machine soared and pitched over the forest.

Her leaps were huge, and the shock each time she descended and rose again threatened to shake the 'plane to bits. Mark swayed in his seat, clutching first one lever and then another, while Professor Henderson and Jack could only cling with both hands to the guys and stay-wires.

The sensation of being so high above the earth, and in imminent danger of being dashed headlong to it, gripped Mark Sampson like a giant hand.

He felt difficulty in breathing, although it was not the height that gave him that choking sensation. There was a mist before his eyes, still the sun was shining brightly. The startling gyrations of the flying machine for some time shook the lad to the core.

But Jack's cheerful cry of "Hang on!" spurred Mark to a new activity—an activity of hand as well as brain. He knew that something had fouled and that this accident was the cause of the machine making such sickening bounds in the air.

She was overbalanced in some way.

With Jack's encouraging shout ringing in his ears, Mark came to himself. He would hang on! His friends depended upon him to control the machine and to save them from destruction,

and he would not be found wanting.

One lever after another he gripped and tried. It was one controlling the rising power that was fouled. He learned this in a moment. He sought to move it to and fro in its socket and could not do so. He had overlooked this lever before.

Again the Snowbird dashed herself from a height of five hundred feet toward the earth.

They still flew over the forest. The tops of the trees intervened, and Mark managed to counteract the plunge before the prow of the machine burst through the treetops. She rose again, and using both hands, Mark jerked the wheel stick into place.

At once the flying machine responded to the change. She rode straight on, slightly rising as he had pointed her, and Mark dared touch the motor switch again. Instantly the machine speeded ahead.

"Hurrah for Mark!" shrieked Jack. "He's

pulled us through."

"He has indeed," agreed the professor, and they settled into their seats and gave attention to the working of the apparatus. Mark now had the *Snowbird* well under control.

Jack changed places with his chum and managed the *Snowbird* equally well. At his touch she darted upward at a long slant until the altimeter registered two thousand feet above the sea. And the sea was actually below them, for Jack had guided the flying machine away out from the land.

"Boys," said Professor Henderson, quietly, "you have done well—remarkably well. I am certainly proud of you. Some day the people of the United States will be proud of you. I am sure that the inventor's instinct and the scientist's indefatigable energy are characteristics you both possess."

"That's praise indeed!" exclaimed Jack, smiling at his chum. "When the professor says

we've won out, I don't care what anybody else says."

"Do you think the Snowbird is fit for longdistance travel?" asked Mark of Professor Henderson, now displaying more eagerness than before.

"I do indeed. I think you have a most excellent flying machine. I would not hesitate to start for San Francisco in her."

"Or farther?" asked Jack.

"Certainly."

"Across the ocean?" queried Mark, quickly.

"I do not see why any one could not take a trip to the other side of the Atlantic in your 'plane," replied the professor. "With proper precautions, of course."

They reached the land and came safely to rest before the hangar without further accident. The professor was delighted with the working of his catapult and at once made ready to call the attention of the Navy Department to his improvement in the means of launching an airship from the deck of a vessel. Ere he had written to the Department, however, he and his young friends were suddenly made interested in a scheme that was broached by letter to Professor Henderson from a fellow-savant, Dr. Artemus Todd, of the West Baden University.

Professor Henderson and Dr. Todd had often

exchanged courtesies; but the university doctor was mainly interested in medical subjects, while Mr. Henderson delved more in the mysteries of astronomy and practical mechanics.

The doctor's letter to Professor Henderson read as follows:

"DEAR PROFESSOR:

"I am urged to write to you again because of something that has recently come to my knowledge regarding a subject we once discussed. you know, for some years past I have been investigating not the cause of aphasia and kindred mental troubles (for we know the condition is brought about by a clot of blood upon the brain), but the means of quickly and surely overcoming the condition and bringing the unfortunate victim of this disorder back to his normal state. In our age, when mental and nervous diseases are so rapidly increasing, aphasia victims are becoming more common. Scarcely a hospital in the land that does not have its quota of such patients under treatment-patients who, in many cases, have completely forgotten who and what they are and have assumed a totally different identity from that they began life with.

"We know that, in some cases, hypnotism has benefited the aphasia and amnesia victim. His condition is not like that of the mentally feeble;

he has merely lost his memory of what and who he previously was. Believing that all disease, of whatsoever nature, can be safely treated only through the blood, this ill to which human flesh is heir particularly must be treated in that way, for we know that a stagnant state of the blood in one spot, at least, is the cause of the patient's malady. Therefore I have been experimenting botanically to discover a remedium for the state in question—something that will act swiftly upon the blood, and directly dissipate such a clot as is spoken of above.

"My dear Professor! I can announce with joy that this remedium is discovered. I obtained a specimen of a very rare plant brought back from Alaska by a miner who wandered into the fastnesses of the Endicott Range, far beyond the usual route of gold miners and in a district which, I understand, is scarcely ever crossed by whites and which is, indeed, almost impassable, even in the summer months. With the aid of this herb—chrysothele Byzantium (it was known to the ancients, but very rare)—I have brewed a remedium which, in one case at lest, instantly cleared the blood vessels of the patient and brought him back to a knowledge of his real self.

"But my supply of the herb is gone. It reached me in its dry state, or I should have first tried to propagate it. It seeds but once in seven

years and therefore is rare and hard to grow. But I must have a supply of the chrysothele Byzantium seeds, plants, and all. I look to you, my dear Professor Henderson, for help. To you space and the flight of time are merely words. You can overcome both if you try. I need somebody to go to the northern part of Alaska—that is, beyond the Endicott Range—to obtain this rare plant for me. You have already flown over the North Pole and a trip which carries one only three or four degrees beyond the Arctic Circle is a mere bagatelle to you.

"Yes! it is in you I place my hope, Professor. The hopes of many, many afflicted people may be placed in you, too. I ask you to fly to this distant place and obtain for me the herb that will do humanity such great good. Under another enclosure I send you drawings of the plant in its several states and a full and complete description of how it was found. You can make no mistake in the chrysothele Byzantium. You know that I am a cripple, or I would offer to join with you in this search. But at least I am prepared to pay for any expense you may be under. Draw upon me for ten thousand dollars to-morrow if you so desire, and more if you need before the start. The Massachusetts Bay Trust Company, of Boston, will honor the draft. Make up the expedition as you see fit. Take as many men with you

as you think necessary. Make all preparations which seem to you fit and needful. I limit you in nothing—only bring back the herb.

"Remember I shall impatiently await your return and look for your success—I expect nothing but unqualified success from your attempt. You who have achieved so much in the past surely cannot fail me in this event. I await your agreement to attempt this voyage with confidence. I must have the herb and you are the only person who can obtain it for me.

"Your friend and co-worker for the betterment of humanity,

"ARTEMUS TODD, M. D., Ph. D."

Professor Henderson read this strange letter aloud in the evening as he and his friends were sitting before the small, clear fire of hickory logs in the big living room of the bungalow in the woods, built beside the great workshops and laboratory. With the scientist and the two boys was Andy Sudds, the old hunter, who sat cleaning his rifle, and Washington White was busy in and out of the room as he cleared away the supper and set the place in order.

"Well! what do you know about that!" exclaimed Jack Darrow, always ready with a comment upon any subject. "Dr. Todd is certainly some in earnest; isn't he?"

"But what a cheek he has to ask you to go on such a journey!" cried Mark. "He talks as though he expected you to start immediately for the Arctic Circle."

"There would be good hunting up there in the mountains," said Andy Sudds, succinctly. "I wouldn't mind that."

"An'disher chrysomela-bypunktater plant he wants," grunted Washington. "Hi, yi! ain't dat de beatenest thing? Who ebber heard of sech a plant befo'?"

"Nobody but you, I guess, Washington," said the professor, quietly. "That seems to be a plant of your own invention."

"But, sir!" cried Mark, "you have no idea of taking this trip he suggests; have you?"

"Dr. Todd has done me many a favor in the past," said Professor Henderson, thoughtfully.

"Well, if you're going, count me in," said Jack, quickly. "I don't mind a summer trip to the Arctic. Say! it can't be much cooler up there than it is here right now. This fire doesn't feel bad at all."

"Humph!" muttered Mark, who never was as sanguine as his chum. "This cool spell will only last a day or two here; but I understand the tops of the Endicott Range are always white."

"B-r-r!" shivered Washington, at this state-

ment. "Dis chile don't t'ink much ob such a surreptitious pedestrianation as dat, den. Don't like no cold wedder, nohow! And Buttsy don' like it, needer."

"Who's Buttsy?" demanded Jack, grinning.

"Why, fo' suah," said the darkey, gravely,
"you knows Christopher Columbus Amerigo
Vespucci George Washington Abraham Lin—"

"But you wouldn't expect to take Christopher Columbus And-so-forth to Alaska with us; would

you?" asked Andy Suggs.

"Why not?" demanded the darkey. "He flowed to de moon in de perjectilator; didn't he? Huh! In co'se if de perfessor goes after disher chrysomela-bypunktater, I gotter go, too; and in co'se if I go, Buttsy done gotter go. Dat's as plain as de nose on yo' face, Andy."

The hunter rubbed his rather prominent nasal organ and was silenced. Jack and Mark had turned more eagerly to the professor as the lat-

ter began to speak:

"Yes, Dr. Todd is my good friend. He turns to me for help quite properly; who else should he turn to?"

"But, Professor!" ejaculated Mark, warmly.

"Are you to be driven off to Alaska at your age to hunt for this herb—which is perhaps only the hallucination of a madman?"

"Mark's hit the nail on the head, Professor!" declared Jack. "I believe this Todd must certainly be 'touched' in his upper story."

"Am I touched, as you call it, Jack?" demanded Professor Henderson, in some indigna-

tion.

"But you don't believe Todd is on the trail

of any great discovery?" cried Mark.

- "Why not? Mind may yield to herbal treatment. Todd is an advanced botanical adherent. He believes almost anything can be accomplished by herbs. And he says he has successfully treated one case."
- "One swallow doesn't make a summer," remarked Mark, doubtfully.
- "But it is enough that he wants us to find the herb," said the professor, more vigorously.

"" Us '!" repeated Jack.

"And he will pay us any reasonable price for our work," added their mentor.

"He really means to go!" cried Mark.

- "I certainly do. I think you and Jack will accompany me," said the professor, quietly. "I know that Washington will, and of course Andy will not be left behind."
- "Not if there'll be a chance at big game," declared the hunter. "I'm with you, Professor Henderson."
 - "Yo' suah can't git erlong widout me, I

s'pose?" queried the darkey, in some uncertainty.

"I'se mighty busy right yere jes' now."

"And you'll be busy if we go to Alaska, Wash!" cried Tack. "Hurrah! I am willing to start to-morrow, Professor."

"And you, Mark?" queried the old gentle-

man of his other adopted son.

"How will we go, sir? We shall be until fall traveling to the Arctic Circle by any usual means."

"True," said the professor. "And haste is imperative. I cannot spend much time in this matter. We must take unusual means of getting to the Endicott Range."

"What do you mean?" asked the boys in

chorus.

"Your Snowbird is ready for flight. It can be provisioned and will take us all quicker than by any other means. Therefore in the Snowbird we will make the journey."

CHAPTER III

THE FLIGHT OF THE SNOWBIRD

JACK DARROW and Mark Sampson were glad enough to be of the party aiming to reach northern Alaska and the Endicott Range, if Professor Henderson really intended going to find the strange herb for which Dr. Todd was willing to pay so generously.

Of discussion, pro and con, there was much. Indeed, they sat up until after midnight after the reading of Dr. Todd's letter, talking over the contemplated journey, and gradually the details of the trip, including all preparations for it, were worked out.

Jack and Mark put into the affair, once they were determined to aid the professor, their characteristic energy. Professor Henderson wired his brother scientist that he would undertake the journey to Alaska, and accepted the ten thousand dollars to defray expenses. Andy Sudds made characteristic preparations for hunting the big game of the Alaskan mountains. Washington White built a traveling coop of very light but strong material for his pet Shanghai, and then

announced himself as ready to depart for the Arctic Circle.

The instructions and map furnished by Dr. Todd, locating the very spot beyond the Endicott Range where the rare herb had been plucked by the miner, showed it to be in a very wild region indeed. There was a native settlement named Aleukan within a hundred miles of the valley where the herb was supposed to grow in abundance. Professor Henderson determined to lay their course for this place.

But the nearest white man's town was Coldfoot, on the other side of the mountains. There was a trail, however, passable in summer for a dogtrain from Coldfoot to Aleukan; and a dogtrain could likewise pass from the native village to the valley where the miner had found the herb.

These facts the professor and his young associates discovered as soon as Dr. Todd's instructions arrived. They made their plans accordingly.

By telegraph the professor ordered a trainload of supplies to be started at once from Fort Yukon. First, these supplies would go by boat down the Yukon Flats and up the Chandler River, past Chandler and Caro, beyond which latter town there was a good road over a small range of hills to Coldfoot. This trail was open at all

seasons and there was a regular system of transportation into Coldfoot.

From that town dogs and men would be hired to take the supplies on to Aleukan. These arrangements were made through an express company, and in three days the professor received word that the supplies were already aboard a small steam vessel which had left the Fort Yukon dock for the trip to Caro.

The trip by boat and overland for the supply train would consume about a week or two, providing nothing untoward happened to delay it. And the season was favorable to a quick journey.

But the professor and his young comrades figured that the Snowbird, following the shortest air-line to the far side of the Endicott Range, could make the trip in much shorter time. The distance "as the crow flies" was from 3,700 to 3,800 miles from their point of departure. Under favorable conditions the great flying machine should travel ninety miles an hour on the average. Unless there was a breakdown, or they ran into a heavy storm, which would necessitate their descending to the earth, they could count upon the Snowbird being in the vicinity of Aleukan within three or four days' time at the longest.

In the flying machine itself they could carry a supply of concentrated foods, medicines, necessities of many kinds, and their arms. It was probable that meat could be had for the killing in the valley to which they were bound, and the Indians at Aleukan could be hired to supply necessary food for a time. But the professor did not propose to take his friends into the wilderness without completely warding off disaster.

Considerable space in the Snowbird was occupied by Professor Henderson's scientific instruments. He was amply supplied with powerful field glasses, a wonderful telescope, partly of his own invention; instruments for the measuring of mountains heights, the recording of seismic disturbances, and many other scientific paraphernalia of which Jack and Mark did not know even the uses.

The boys were as well supplied with firearms as Andy Sudds himself. They knew that they would probably see and be obliged to kill dangerous beasts; and although the several tribes of Indians inhabiting Alaska are all supposed to be semi-civilized and at peace with the whites, they had had experience enough in wild countries before to warn them that the temper of aboriginal man is never to be trusted too far.

Their own readiness for departure in the Snowbird had been gauged by the telegraph dispatches from Fort Yukon. When the final message came that the boat bearing the supplies had started, Professor Henderson asked:

"And now, boys, when can we leave by the air route?"

Jack and Mark glanced at each other and nodded. Jack said:

"All you have to do, Professor, is to put your bag aboard the ship and step in. We are ready to start the *Snowbird* at any moment. Andy has his guns aboard, and plenty of ammunition. Mark and I are all ready. At your word we will leave."

"It is already dark," said the professor, slowly.

"Shall we wait until morning?"

"The moon will be up in an hour—and it is almost at its full," Mark said, quickly. "The quicker we are off the better, it seems to me."

"Very well," agreed Professor Henderson.
"If you boys say the word, we will start. Is

Andy here?"

"He is already aboard—asleep in his bunk," said Jack, "with his best rifle cuddled in the hollow of his arm. He does not propose to be left behind," and the young fellow chuckled.

"And where is Washington White?"

"He's done yere," answered the darkey for himself, and he appeared bearing the traveling coop of Christopher Columbus And-so-forth in his arms.

"Here, Wash!" ejaculated Jack. "Surely

you are not going to clutter up the flying machine with that thing?"

"An' why fo' not?" sputtered the darkey. "Whatebber has Buttsy done ter yo', Massa Jack, dat yo' should be obfendicated at his 'pearance in de present state ob de obsequies?"

"Then the rooster accompanies the expedition," chuckled Jack. "Only remember, if we have to throw out anything to lighten ship, Buttsy goes first—even before we are obliged to dispense with your services, Wash!"

"Den we are ready to start," declared the darkey, solemnly. "Nottin' will now disturb de continuity ob de ebenin's enj'yment. Forward, march, is our motter!"

And he marched away to the flying machine and got aboard with the coop and Buttsy in his arms.

The professor had found the last of his possessions he wished to take with him. He followed the negro aboard. The Snowbird was already outside the hangar and on its wheels, ready for the start. This time they dispensed with the professor's catapult, for it would be necessary to have the trucks attached to the aeroplane to enable her to start properly from any point on which they might land. The workshop and plant in general were left in charge of a watchman and caretaker, and only this man was present when

Jack took his place in the controller's seat and Mark started the powerful motor and clambered aboard.

The craft ran across the field, at first slowly and then more rapidly as Jack increased the speed. The flying machine began to lift almost immediately.

- "Hurrah!" shouted the irrepressible Jack. "We're off!"
- "About nor-norwest is the course, Jack," cried Mark Sampson, likewise inspired by the flight of the Snowbird.

As for Washington White, he gazed down to the dusky earth below them and his eyes rolled.

"Gollyation!" he muttered. "If Buttsy should fall down dere, he'd suah jounce himself some; wouldn't he?"

CHAPTER IV

"who goes there?"

WITH the moonlight lying like a benediction over the fields and forests of Maine, the Snow-bird, her motor humming like a huge bumble-bee, and her propellers and controls working in perfect order, swept on her course into the northwest. The lights of Easton, ten miles from their home, melted into the earth-shadow behind the sky-voyagers within the first hour of the sure-to-be eventful journey.

Jack Darrow did not force the pace of the flying machine. They had a long and trying flight before them. The machine as a whole had been tried out only two or three times during the few days that had elapsed since she was completed and this present expedition had been planned. These short flights had served merely to put the parts in good working trim; but the lad knew better than to make the pace that of top-speed from the start.

He wanted her to "warm up." He knew that the Snowbird could make one hundred twenty-five miles an hour. But such speed was likely to shake something loose and cripple the mechanism.

A flight of seventy or eighty miles an hour would bring them well into Canada by noon of the next day. They would have to there descend at, or near, some town, and report themselves and the nature of their flight to the authorities. This was to be done as a precaution in case they had a breakdown somewhere in crossing British possessions. A passport would then aid them if they were obliged to call upon the authorities in the heart of Canada for aid.

But at present none of these things bothered the party much. Sudds and the professor slept as though they were in their beds at home. The old hunter could sleep anywhere, and awake instantly with all his faculties about him. And the scientist slept profoundly because his body was exhausted.

Under the brilliant moon the Snowbird swung along the air-way like a veritable bird. Jack increased the revolutions of the propellers a trifle and the ship responded like a spirited horse to the spur. She darted ahead at a ninety mile speed and Washington White emitted a mournful groan.

"What's the matter with you now, Wash?" shouted Mark, for they all wore ear-tabs and had to shout to make one another hear.

"Oh, lawsy-massy on us!" groaned Wash.

"I'se got sech a misery, Massa Mark. I dunno but ma time has camed."

"What time has come?" demanded Mark, without much sympathy. "It'll be time for you to hustle and get us something to eat before long."

"For de goodness gracious Agnes' sake!" gasped the negro, "yo' suahly ain't a-gwine ter dribe me ter wo'k up in disher flyin' contraption? Dat would suah be cruelty ter animiles, boy—it suah would!"

"We've got to eat, Wash," said Jack, chuckling, "and you are steward and cook of this craft."

"Gollyation! did I ship fo' sech wo'k? I nebber knowed it. It does seem to me dat de consanguinity ob de 'casion done call fo' notting but de quietest kind o' verisimilitude. De qualmishness dat arises in de interiorness of ma diaphragm ev'ry time I circumnavigates erbout in disher flyin' ship makes me wanter express mahself in de mos' scatterin' kin' ob er way—I hopes you gits ma meanin' clear?"

Jack was laughing so that he could not speak, but Mark managed to say:

"You mean that the motion of the aeroplane gives you a feeling of mal de mer?"

"Dat's wot I done said," Wash replied, seriously. "I nebber in ma life felt so mal-dermerry as I do at dis present onauspicious 'casion;

an' if dat mal don't stop merryin' purty quick, I suah shall be—ugh!—sick ter ma stummick!"

This wail fairly convulsed Jack Darrow and Mark Sampson; but they knew that if Wash paid more attention to his duties and thought less about his own situation he would be better off. Mark insisted on his going at once into the tiny, covered "galley," as the boys called it, hung amidships, in which were the means of heating water, making coffee, and cooking certain simple viands in their stores.

Wash went to his duties grumblingly; but he was an ingenious and skillful cook and when he got to work he forgot his "feeling of mal-demerry."

It was now approaching midnight and the flying machine had been steadily traveling northward for some hours. Both Andy Sudds and the professor awoke and offered to relieve the boys in their work. But Mark had taken Jack's place in the controller's seat and neither he nor his chum felt that he wished to give over the guidance of the *Snowbird* to anybody else.

Now, some distance ahead, the peak of Mt. Katahdin, gloriously mantled in moonlight, rose before them. Their direct course lay over the summit of this eminence, and Mark decided that it would be better to rise to a higher strata and cross the mountain than to swing around it.

Therefore Mark raised the bow of the flying machine and she darted upward on a long slant, drawing ever nearer to the shining peak of the great mountain. The night air was chill—it had been cool when they left the earth—and as they rose to the rarer ether it was evident that they would find a degree of temperature far lower than the usual summer heat.

Mark kept the Snowbird scaling swiftly upward, mile after mile; but the long tangent at which he had started to clear the summit of Katahdin did not prove sufficient, and by and by they found themselves within a very few yards of the rocky side of the peak.

Out of a dark glen a spark of light suddenly shot—almost like a rocket in swiftness. Jack saw it first and cried:

"See that! What is it? What do you make of it?"

"A shootin' star, I declare!" said Andy Sudds.

"Nothing of the kind," exclaimed Jack, quickly. "A star could not shoot up from the earth."

"Wot's dat says somebody's a-shootin' at us?" gasped Washington White. "If dey punctuates our tire, we'll suah go down wid a big kersmash!"

The professor, however, watched the "shooting star" for some moments without speaking,

and then rapidly made his way to Mark's side.

"Send your 'plane up in spirals, boy!" he commanded. "Don't let that light rise over us. Be quick, now!"

"What is it, Professor?" asked young Samp-

son, as he obeyed the scientist's injunction.

"I am sure it is a light in the bow of another airship—but what manner of ship she is, or who drives her, I cannot guess," declared Professor Henderson, gravely.

"Another airship!" cried Jack, who overheard him. "What do you know about that?"

Mark handled the Snowbird with great skill, and the powerful craft mounted much more swiftly than the distant spark of light. The spiral course the 'plane now followed carried it at times much farther from the mountain side than it had been when first the strange light was noticed. That light followed the Snowbird up and up in similar spirals, and the boys were soon convinced that Professor Henderson's discovery was a fact. The lamp was in the bow of another air craft.

"But why should we keep over them?" asked

Jack. "There is no danger; is there?"

"We do not know who they are," said the professor, shortly. "The craft came right out of a fastness in the mountain-side—a place difficult to reach, and which would not seem to attract aviators of the ordinary class." "I know what he is thinking of," cried Mark, suddenly. "I read in the paper that the Department of Justice officers are after some big smugglers and that it is believed the criminals, in going back and forth into Canada, use some kind of an aerial craft. Isn't that so, Professor Henderson?"

"I had the fact in mind. The flying machine is being put already to uses that are not commendable, to say the least. The Maine and Canadian border has for years been used by bands of smugglers, and if one of these gangs have purchased and can use a flying craft, they may make the revenue men a deal of trouble."

"You're right, sir. And I read likewise that the government officers proposed using an aeroplane themselves to track the smugglers. Perhaps the villains, if that is their ship below us,

may take us for secret service men."

As he spoke the lamp so far below them darted up at a sudden and sharp angle, there sounded the sharp crack of some weapon, and Washington White jumped and screamed.

"Gollyation!" he bawled. "Dem fellers is

suah tryin' ter punctuate us!"

Through the blackness of the night a distant

voice hailed the pilot of the Snowbird.

"Ahoy! ahoy! Who goes there?" was the cry, and it was repeated twice.

CHAPTER V

BETWEEN TWO PERILS

MARK SAMPSON, having all the mechanism of the flying machine under his immediate control, had it in his power to increase speed and seek to escape the second airship. And Jack wondered why his chum did not immediately send the Snowbird flying at increased speed over the top of Mt. Katahdin and so seek to escape the menace below.

But the young fellow at the controls of the Snowbird had an advantage over his companions that Jack had forgotten. He could hear sounds at a much greater distance than they, and much clearer.

This was because of an invention of Professor Henderson—a small instrument similar to part of the ordinary telephone. The sensitive disk was a form of radio receiver which could be attached to any aviator's helmet, and was being put into general use by pilots. The two boys always adjusted this whenever

they were strapped upon the pilot's seat.

Thus, although the report of the gun had sounded but faintly to the other members of the party, to Mark it seemed as though the explosion was within a hundred yards. The voice hailing them likewise seemed to ring in his ears very plainly; and beyond the words somewhat distinguished by his companions the young operator of the Snowbird could make out a further phrase spoken by the person who hailed from the other air-craft.

"Halt in the name of the law!"

Those were the sharp words Mark had caught, and for that reason he hesitated to increase the *Snowbird's* speed.

In a strap hung near his left hand was a transmitter. Without taking the advice of any of his companions in the flying machine, Mark seized it, put it to his lips, and replied to the hail:

"Ahoy! what do you want?"

Instantly the voice rose from the black abyss below them:

"Heave to! Stop in the name of the law!"

That time the professor and Jack heard the words spoken by their pursuer.

"What do you know about that?" demanded

Jack. "'In the name of the law', no less!"

Professor Henderson jumped to the same conclusion that Mark had, and that instantly. "It may be the Secret Service men themselves," he said. "Ah, Andrew! it is just as well to withhold your fire until we know for sure."

For Andy Sudds had seized his rifle and stood ready to withstand an attack, should such an act become personal

become necessary.

Up from the depths came the cry again:

"Hold your ship. I propose to come aboard and search her. In the name of the United States Government!"

Mr. Henderson took the radio telephone out of Mark's hand and replied:

"We wish to know who and what you really are. We will not put ourselves in your power without knowing. We are amply armed."

"Don't you dare to fire upon a United States officer in the discharge of his duty," cried the voice from below, and now the strange airship was much nearer to them. "Who do you claim to be?"

"This is the Snowbird, from Easton, Maine, She is manned by her builders, Darrow and Sampson. She carries as passengers Washington White, Andrew Sudds and Amos Henderson," declared the professor, in reply. "And she is bound for Alaska."

"Well, well!" exclaimed the voice of their pursuer. "That may all be so. But I have my suspicions. I am Ford, special agent of the

Department of Justice. Stand by. Now I am coming aboard."

At a nod from the professor, Mark had already brought the Snowbird to a halt. She lay floating, with all planes extended and without motion of propellers, poised over the summit of Mt. Katahdin.

The descending moon threw its beams over the height and revealed to the vaguely anxious occupants of the Snowbird, the other machine darting up from below.

This was a craft of much different aspect from their own. It was a great deal smaller and apparently without half the power possessed by

the one built by Jack and Mark.

She shot into the air above their heads at a swift pace, however, and immediately poised over them. In this attitude Ford, as he called himself, had the occupants of the Snowbird completely at his mercy. A bomb dropped upon the huge flying machine would have blown her to pieces. Or, with a gun, he could have picked off one after another of the five people below.

"Stand out of the way, there!" commanded

Ford.

Instantly those upon the larger air-craft saw a figure swing down from the framework of the airship above their heads. A light rope ladder unrolled and fell upon the upper deck, or platform of the *Snowbird*, and the man came down this ladder, hand under hand, and in half a minute stood in their midst.

He was a small, gray man—gray suit, gray hair and close-cropped mustache, and gray face, colorless and deeply lined. His age would be hard to judge.

"The Snowbird; eh?" he observed, looking sharply from one to the other of the five passengers of the huge flying machine. "You are Amos Henderson, sir?" he pursued, nodding to the professor. "I believe I have heard your name before. Professor Henderson, whose scientific discoveries have made us all marvel of late?"

"I am Professor Henderson," said the old gentleman, quietly. "And I can vouch for my companions. These boys, my adopted sons, have built this flying machine, and we are bound for Alaska."

"Indeed! Then I fear I have caused you some slight trouble, not to say delay," said Mr. Ford. "We revenue agents are extremely anxious to overhaul and interview all aviators along the border. You understand?"

"I believe that you have cause to suspect certain flying machines operating between the Canadian towns and Maine settlements," admitted Professor Henderson. "Quite right. And if our suspicions are based on fact, innocent flying men like yourselves may well beware of the fellows we are after. To be frank with you," pursued Mr. Ford, "a band of desperate smugglers are operating by aid of one or more aeroplanes. And piracy in the air may soon became as frequent—and as grave a peril to innocent aviators—as was ever piracy on the Spanish Main."

"It seems impossible!" said the professor.

"Who are these desperate criminals?"

"A man named Bainbridge is at their head. He was originally a diamond dealer and finally was caught smuggling gems into the port of New York. He had to pay a huge fine and served a term at Atlanta for that crime and since then has sworn to be revenged upon the Government that punished him.

"We learned of late that he was operating on the Mexican border—bringing into the States diamonds that had paid no duty—by aid of a flying machine. But the uprising in Chihuahua and along the border made his work exceedingly dangerous, and he was driven away from that part of the country.

"Now we believe he has joined forces hereabout with ancient enemies of the Federal officers. At least, there is a strange aeroplane reported from both sides of the border, and some fine gems have appeared in the hands of certain suspected dealers in Maine, and as far south as Boston and Providence.

"Bainbridge is known to be a desperate man. Look out for him, Professor. If you are hailed by another machine, better keep away from it," and the secret service agent laughed. "Had I been in your place I would not have halted on this occasion. You certainly can outsail any airship I have ever seen operated."

Mr. Ford seemed quite satisfied that our friends were law-abiding and he ascended to his waiting craft in a few moments; and the *Snow-bird* started onward again through the starlight.

But the warning of the special agent had impressed the boys as well as the professor. Andy Sudds refused to lie down again, although Jack and Mark continued to operate the flying machine. The old hunter sat with a rifle in his hand for the rest of the night. But the professor went to bed.

An hour after midnight a cloud from the west completely masked the moon and the whole heavens became misty. This cloud brought both wind and rain, and low upon its edge the lightning played fitfully.

"There will be a heavy tempest about dawn," Andy promised the boys. "I have seen a thun-

derstorm gather like this before."

"But not while you were in a flying machine," chuckled Jack.

"No, sir. But on a mountain top a tempest looks much the same."

Mark, while at the controls, had scaled the machine down the air-ways until they were not more than fifteen hundred feet from the earth. But the boys decided to let the storm gather beneath them, and so shot the *Snowbird* up again until the indicator registered three thousand feet.

Near the earth it must have been very warm and sultry; but up here it was down to freezing, and the party were all warmly dressed. The clouds soon hid the whole earth from them and the great flying machine traveled in space, with the star-lit heavens above and the rolling mass of vapor, streaked now and then with lightning flashes, beneath.

The deafening roll of the thunder awoke Washington White from a short nap, and the darkey was not at all sure that he was safe from the lightning bolts.

"How d'I know dem bolts won't fly disher way?" he demanded of the boys when they tried to reassure him.

"Why, the earth attracts the electric bolt, and that attraction is much stronger than any the Snowbird may have for the electricity in the clouds," Mark told him. "I don't know erbout dat," grumbled Wash. "An' if jest one o' dem crazy lightning bolts should take it into its haid ter segastuate eround disher flying merchine—biff! bang! dat would be erbout all. Dere would be a big bunch o' crape hung on Wash White's do', suah as you is bawn, boy!"

But although the roar of the thunder and whining of the wind nearly drowned other sounds in and about the flying machine, save for a freshening of the gale the *Snowbird* was at first but little disturbed by the tempest which raged with such fury a thousand feet below.

Suddenly Mark caught sight of something moving across the red streak in the eastern sky—the light that warned them of the approach of the sun.

"What is that—a huge bird?" he demanded of Andy Sudds, pointing this moving figure out to the hunter.

Andy's eyes were very keen, for he was used to sighting along a rifle and gazing over long distances in search of game. But he, too, thought the object must be a bird.

"I declare, I didn't know birds flew so high," said Mark. "It must be an eagle. No other fowl could fly so high."

"'Nless it were Buttsy," remarked Washington, sotto voce.

The professor was still asleep and the boys paid little attention to the flying object for some time. It was coming up behind the Snowbird, and they had no occasion to look behind.

The sun arose, angry and red, while the thunder continued to roll below them, and the crackling of the electric flashes was like minute guns. The Snowbird was winging its way along at about seventy-five miles per hour. Wash had gone into the covered galley to prepare breakfast. Jack was still in the operator's seat.

Suddenly Andy Sudds uttered a loud shout. A huge shadow was thrown athwart the flying Snowbird. Some object was hovering over them and they cast their eyes upward, at Andy's cry, to see another aeroplane swooping down directly

upon them.

It was not the machine manned by Secret Service Agent Ford and his companion, but a much heavier and more rapid vehicle. And until its shadow fell across the Snowbird, the boys had

had no warning of its approach.

At first glance it was apparent that the strange aircraft intended mischief. It was shooting down from a higher level, its sharp bow aimed directly for the *Snowbird*. Jack pushed over the switch and raised the bow of their own ship. She leaped forward and began to slant upward, too.

But instantly the course of the stranger was

deflected to meet this change in the movement of the Snowbird. She had the advantage of the boys' craft, too. She evidently proposed to retain her overhead position, and as she shot in closer, Jack was constrained to descend again to escape collision with her.

"Keep away!" he shouted through the transmitter, and at his cry, and the bustle about him,

the professor was awakened.

But no reply came from the strange aeroplane, although they could see several figures moving upon her. It swooped down upon them, and Jack had to deflect his planes again and slant downward toward the storm-cloud.

And then he saw the other peril. He was between two great dangers. If the reckless aviator tried to ram him from above, his only escape was by plunging through the tempest which raged just below them.

Down came the stranger upon the Snowbird again. She surely meant them ill—she was bent on their destruction. And meanwhile the thunder roared below and the crackling of the lightning was almost incessant.

Jack Darrow had to decide quickly—and he must determine which of the two risks to take.

CHAPTER VI

ON THE WINGS OF THE WIND

Speedy as the Snowbird was, she could not get out from under the shadow of the strange aeroplane. That was driven at a sharp angle down upon the boys' flying machine, and it seemed to all those in the lower 'plane that a collision was imminent.

The thunder fairly deafened them all. Around them rolled the mists and the wind shrieked through the stays of the aeroplane and shook the

structure like a dog worrying a bone.

Down they fell, and in an instant the rushing rain, emptied in a torrent from the clouds, swept about them, saturating their garments and beating the flying machine itself toward the distant earth.

During the next few moments Jack Darrow, Mark Sampson, and their companions were in as grave peril as had ever threatened them in their

eventful lives.

The torrents of water all but beat the flying machine to the earth—and to be dashed down

from such a height spelled death to all and destruction to the aeroplane.

Jack, however, had been taught to keep cool in moments of danger, and he realized that their lives depended entirely upon his handling of the great machine. They had descended below the level of the storm-cloud at a most inopportune moment. They were caught in the midst of a veritable cloudburst.

Shaken desperately by the wind, and beaten upon by tons upon tons of water, it was a wonder that the great planes, or wings, of the flying machine were not torn away. All Jack could do was to guide her the best he could, and all his companions could do was to cling to a slender hope and endure the lashing of the gale.

But Jack Darrow did not propose to be cast to the ground—and the flying machine and his friends with him—without some further attempt to avert such a catastrophe.

After the first breath-taking rush of the storm he diverted the course of the machine again upward. He could scarcely see, the driving rain was so blinding; nor could he observe the indicators before him with any clearness. But he was quite sure that the enemy that had driven him down into the storm-cloud could see the Snowbird no better than he could see that strange

aeroplane that had threatened to collide with them.

So he shot the Snowbird upward again at a long slant, and put on all the power of the engine to drive her onward. The flying machine shook and throbbed in every part. The power of the engines would have driven her, under other and more favorable conditions, at more than one hundred miles an hour—possibly a hundred and twenty-five.

Jack himself was almost blinded and deafened. He was strapped to his seat, so could give both hands to the work of manipulating the levers. He brought the Snowbird through the cloud and —with startling suddenness—they shot out of the mass of rolling moisture and into the sunlight of the dawn. But they were far off their course.

The change from the chaos of the storm-cloud to the almost perfect calm of the upper ether was so great that it was almost stunning. For a minute none of the five spoke a word.

Then it was Mark who shouted:

"There's that 'plane again, Jack! Look out for her!"

The enemy had missed them. She was some miles away, and although still on a level above, at the pace the *Snowbird* was now traveling it would take a fast flying machine indeed to overtake her.

The pursuit of the enemy (which they all be-

lieved to be the smuggler, manned by Bainbridge and his friends) was not kept up for long. By eight o'clock the *Snowbird* had dropped the other machine below the horizon, and the swift pace at which they had driven the *Snowbird* was rapidly bringing them once more toward Canada.

The storm had broken, but the clouds still hovered below them. They descended about noon, passing harmlessly through the vapor which had so long hidden the earth from them, and so came to within a thousand feet of the ground, where they swung along at fair speed for some hours.

They crossed the line, but did not descend until near St. Thomas. They went out of their way a good bit to land near this town on the shore of the St. Lawrence, for the flying machine had been so shaken in its struggle with the thunderstorm that some repairs were needed.

They descended in a field on the edge of the town, gave the farmer who owned the place a five-dollar bill to allow the machine to stand on his land, and then engaged him to drive Professor Henderson and the boys into town.

While the professor saw the authorities and obtained a legal document recommending the exploring party to the good offices of all British-Canadian officers whom they might meet, the boys went to a machine shop to have a rod repaired.

The party took supper with the farmer, and an hour later the flying machine being pronounced by both Mark and Jack in perfect order, they got off amid the cheers of the onlookers, whose numbers were by that time swelled to almost five hundred persons.

It was long after dark and the moon had not It was a cloudless night, however, and as the flying machine soared heavenward the voyagers could look deep into the seeming blackvelvet of the skies, picked out by the innumerable sparkling stars, and thought they had never seen

so wonderful or beautiful a sight.

As they cast their gaze downward, too, they beheld the torches at the Canadian farm rapidly receding, and then, in a few minutes, they were flying over St. Thomas, where the lights twinkled, too. Then they shot over the broad, islanddotted bosom of the St. Lawrence River, and so on across country and town toward the vast Canadian wilderness.

The professor and Andy had the watch and Jack and Mark went to bed. The excitement of the previous twenty-four hours had kept the boys up; but once they closed their eyes, they slept like logs all night. Andy Sudds relieved the professor now and then in the operator's seat, and they did not call the boys until Washington White made breakfast at daybreak.

By that time the Snowbird had passed Lake St. John, far to the north and east, and was heading for Hudson Bay. The earth below them was a checker-board of forest and field, with here and there a ribbon of river, and occasionally a group of farmsteads, or a small town. Suddenly they were forced down, and had to remain many hours for repair work before ascending again.

The ranges of hills—some of them dignified enough to be termed "mountains"—which they crossed necessitated their flying high. They were generally at an altitude of two thousand feet and the rarefied atmosphere so far above the earth was cool, anyway. Since leaving St. Thomas, on the bank of the St. Lawrence, they had averaged eighty miles an hour, and before moonrise they were cognizant of the fact that they were approaching a great sheet of water.

"St. James Bay, the lower part of Hudson

Bay," Professor Henderson explained.

Soon the moonlight shimmered upon the waves beneath them. Jack, who was guiding the craft, deflected the wings and they slid down the airways toward the water. They traveled all night over this great inland sea, at times so close to the surface that the leaping waves sprinkled them with their spray—for there was a stiff breeze.

A gale broke in earnest over the Hudson Bay territory that day, and despite the efforts of the voyagers they could not rise in the Snowbird above the tempest. Had there been solid ground beneath them they could easily have descended and remained upon terra firma until the storm was past.

This gale was favorable to their course, but it gripped them in its giant grasp and hurled them on into the northwest at a speed that imperiled the safety of the flying machine each moment. There was no sleep for any of the party now, and Washington White came pretty near (as Jack said) "making good his name in his face"—for if ever a darkey of Wash's ebony complexion turned pale, the professor's servant did so at this juncture.

On and on they were driven hour after hour. Scarcely a word was spoken the entire time. There was no cessation of the gale. The great body of water was passed and they knew that there was land beneath them again. But each time they tried to descend they found the storm near the earth-crust far heavier than at the upper levels.

To descend through the belt of the storm might partially wreck their flying machine and the professor knew, by the study of his recording instruments, that they were passing over an utter wilderness in which no help could be obtained and from which, should they be wrecked, they could not escape before the rigorous Arctic winter set in.

Hour after hour they drove on. The speed of the *Snowbird* at times, when driven by the full force of the gale, had mounted to one hundred thirty miles an hour.

Great Slave Lake was far south of their route; yet the professor told them that, had it been clear, at the altitude they traveled, they could have seen and marked this great body of water.

They actually crossed the Great Bear Lake and the Mackenzie River, however, and saw the ragged peaks of the Rocky Mountains, which here almost touch the shores of the Arctic Sea. Blown on and on, with little diminution of speed, it was not many hours before the Snowbird was flying over Alaskan wilds. The flying machine had kept closely to the course the professor had laid out for her when they left Maine. They were still headed for the slopes of the Endicott Range and the native town of Aleukan.

The question paramount in all their minds, however, was this: Would they reach their destination in safety?

CHAPTER VII

DROPPED FROM THE SKY

A THICK mantle of fog masked the heavens; but beneath this the wind—traveling at great velocity—drove the ragged clouds like frightened sheep across the pastures of the firmament.

The moon and stars gave so little light that the earth seemed but a vague and shadowy mass—nothing more. The wind shrieked in many voices, as though a troop of goblins raced through the air, or rode the strangely formed and hurrying clouds.

Driven on with the tumbling banks of vapor, as vaguely outlined in the gloom as the clouds themselves, was the great flying machine, which the wind buffeted and harried about as though against it Old Boreas had some special spite.

Jack was in the operator's seat; but there was little to do but hang on to the steering wheel. The wind blew them as it listed.

"I don't well see how anybody can sleep in this horrid storm," complained Mark Sampson. "And the machine rocks so—ugh! I'm as sick as though we were at sea." "And we are pretty completely 'at sea,'" chuckled the more volatile Jack. "I hope the professor knows where we are. I don't!"

"And I don't see how he can tell," grumbled

his chum.

"Pluck up your spirits, old man!" returned the older lad, but Mark interrupted him, still crossly:

"I hope I am as courageous as the next. We've done some funny stunts together, Jack Darrow—you and I and the old professor. But this caps them all, I declare. It's a mystery to me how Mr. Henderson and Andy Sudds can remain asleep."

"Well, they are both tired out, I reckon. They had a long watch—and we slept, you

know."

"That was a long time ago," grunted Mark.

"It's pretty tough, I admit," said Jack, when Washington White broke in with:

"Hi, yi! Whuffo' you boys be sech cowards?

Is I skeert? Huh!"

"You bet you're scared," returned Jack, emphatically. "When we got caught in that flaw yesterday afternoon he wanted to jump out; didn't he, Mark?"

"Wash certainly tried to climb out," rejoined

Mark.

"Well, den! dat showed I warn't no coward,"

crowed the black man, though in a very shaky voice. "If I'd been scart', would I really have wanted ter jump? It was a might long way to de groun' right den, I guess."

Suddenly the Shanghai crowed loudly.

"Tell yo' what!" cried the black man, scratching his head. "Dat rooster done crow fo' company."

"Company!" gasped Mark. "What does he think he hears up here—angels' wings? We're about as near being in the company of the celestial hosts as we'll ever be and remain alive, I reckon."

"No, sah!" retorted Washington. "Dat Shanghai done know dat we is near some oder fow-el—"

"Up here in the air, Wash?" cried Jack.

"Dunno whar dey is," said the darkey, doggedly. "Dar he crows ergin! Dar is suttenly critters ob his kind nearby—yes—sah!"

It may have been the Shanghai's raucous tone that aroused Andy. The old hunter suddenly appeared on the platform behind the operator's seat, where the boys and Wash were clinging, and Andy brought his rifle with him.

"Hullo!" he said. "Is the watch called?"

"I'm sorry if we awoke you, Andy," Jack said.
"There is nothing for you to do."

"Nothing to shoot at; eh?" said the old

hunter. "I reckon I ain't of much use in a flying machine, anyway. Sort of 'up in the air'; ain't I?"

"That's where we all are," complained Mark.
"And I, for one, wish we were down again."

"Guess we're all with you in that wish, old

man," agreed Jack.

As he spoke, the wind-blown figure of the professor hove into view from the small, sheltered cabin. He glanced at the various indicators and the compass in front of Jack.

"We are all in safety yet; are we, boys?" he

queried.

"If you can call being driven helplessly before such a gale and about a mile above the earth safe," retorted Mark.

"Surely not as high as that," exclaimed Professor Henderson. He examined the instruments again, and said, quickly: "We are descending!

How is that, Jack?"

"Not with my knowledge, sir," returned the boy aviator. "I think we have remained on the thousand-foot level since crossing the Rocky Mountains."

"I believe you have been faithful, my boy," returned the professor, quickly. "But the earth is certainly less than three hundred feet below us—ah! see that? The indicator registers 250 feet. Now 240!"

"We are falling!" cried Mark.

"No!" said the professor. "The earth is rising. We are being blown against the mountainside. We must be within a few hundred miles, at least, of our destination. Those are the Endicott Mountains yonder," and he waved a hand at the darkness to the south of them.

"Hark!" cried Andy Sudds, suddenly.

There was a momentary lull in the wind. From below came the broken crowing of a cock in answer to the Shanghai's challenge. Then a dog barked.

"There's a farmhouse down there," said the

hunter.

"What did I tell yo'?" cried Washington White. "Dat Buttsy knows his business, all

right!"

"We must descend," commanded the professor. "Deflect the planes, Jack. Watch the indicator. Reduce the speed. Let us float down as easily as possible."

But, wrestling as the flying machine was with the wind, she could not descend easily. She scaled earthward with fearful velocity. The

irrepressible Jack yelled:

"Go-ing down! We're going to bump hard

in a minute!"

The aged professor and Andy Sudds showed no perturbation. Jack and Mark had been

through so many wonderful experiences with the professor, Andy, and the negro, that they were not likely to be panic-stricken. Yet all realized that death was imminent.

The finger on the dial showed a hundred feet from earth, and still they descended. Fifty feet! "Hold hard!" commanded the professor.

"We'll be down in a minute."

There seemed to be a break in the hurrying clouds. There was light in the sky—the twilight of the Long Day, for they were far beyond the Arctic Circle.

Looking down they could dimly see objects on the earth—trees, a house of some kind—several houses, in fact.

And then suddenly there was added to their perils an unlooked-for danger. Out of the murk which covered the earth below the flying machine sprang a point of light and the explosion of a gun echoed in the aviators' ears.

A rifle bullet tore right through to the inside and passed between the professor and Andy Sudds. There were men with firearms below, and they were firing point blank at the flying machine.

CHAPTER VIII

PHINEAS ROEBACH, OIL HUNTER

As has been said, the boys and their older companions had been in many perilous situations; but no adventure promised to end more tragically than this flight of the huge airship. The descent of the *Snowbird*, punctuated by the rifle shot below, seemed likely to be fatal to them all.

"What kind of people can they be?" gasped

Mark. "They are trying to shoot us."

"Give me my rifle! I'll show 'em!" exclaimed the old hunter.

"You'll do nothing of the kind, Andy," commanded Professor Henderson. "Do not make a bad matter worse by yielding to your passions."

A second shot was fired by those upon the ground; but the bullet went wide of the mark. Tack shouted:

"We are drawing away from them. Look out! we all but hit that tree!"

"Steady, Jack," admonished the professor. "We'll be down in a minute, my lads. Cling to anything handy. She will bounce some, but I believe we shall not be injured."

The calmness of the aged scientist would have shamed the others into some semblance of order, were it needed; but both the boys were courageous, Andy Sudds did not know fear, and if Washington White was in a panic of terror, he did not get in the way of the others to hamper their movements.

The Snowbird was fluttering over the ground like a wounded bird, while so black were their surroundings that none of the party could distinguish anything of nearby objects. The clouds had broken but little, and only for a moment.

"She's down!" suddenly shouted Mark Sampson, and the flying machine jounced on its rubbertired wheels, and then struck the ground again almost immediately.

Mark leaped down on one side and Andy Sudds on the other. Instantly, relieved of their weight, the flying machine was carried on again and Mark and Andy were thrown to the ground.

Perhaps that was well, for several rifles were again fired behind them and they heard the bullets whistle above their heads.

"Low bridge, Mark!" cried the old hunter, meaning for the boy to keep close to the earth. "I've got my gun."

"Don't fire on them, Andy," responded young Sampson, remembering the professor's warning.

"We don't know who they are or what they mean by their actions."

"We don't want to be shot down without

making any fight; do we?" cried Andy.

"Let us escape without a fight if possible," urged the cautious youth, feeling sure that Professor Henderson would approve of this advice.

But the pounding of many feet approaching over the rising ground-evidently, as Mr. Henderson had said, the foothills of the mountain range-warned Mark and the hunter to keep In the partial light they saw a group of tall men, all armed, running past them in the direction the wounded Snowbird had been blown.

"Hush!" whispered Andy. "Indians!"

Mark had seen their long hair and beardless faces, and believed the hunter was right. The enemy were dressed in clothing of skins and were without hats. Yet Mark knew that the Indians of Alaska were much different from the savages of the western territories of the United States. He did not believe these Alaskan aborigines would attack white men.

It was growing lighter about them every moment. The lad and the tall hunter arose and stood listening for a further alarm-or for some cry from their comrades in the flying machine.

As the light increased they saw that they were in a grove of huge trees. Somehow the Snowbird had fluttered away through these forest monarchs and was now out of sight.

"I wonder what's happened to them?" gasped

Mark.

"Them Indians haven't attacked yet," growled Andy Sudds. "If they begin to shoot we'll know which way to go, and we'll foller them."

But the first sound they heard came from behind them. There was the crash of heavy footsteps and a big man suddenly came panting up the slope. Cold as it was, his shirt was open at the neck, he was bare-headed, and he had not stopped to pull on his boots when he arose from his bed. In his right hand he carried a battered "fish-horn," and without seeing Mark and Andy he stopped and put this instrument to his lips, blowing a blast that made his eyes bulge and his cheeks turn purple.

"Hold on, Mister!" ejaculated the hunter.
"What you got to sell? Or be you callin' the

cows?"

"Mercy on me!" cried the fat man, and in a high, squeaky voice that seemed to be a misfit for his huge body. "I am sure I'm glad to meet you. You must have just arrived," and he squinted at the strangely clad hunter and his boy companion, for Mark wore a helmet with eartabs.

"We just landed, that's sure," admitted Andy.

"From an airship, I fancy," exclaimed the "That is what is the matter with my Aleuts, then. They never have seen such a thing as an airship, I'll be bound. Have they hurt any of your party?"

"I don't know," Mark said, hastily. "If you are in command of those Indians, call them off, please. There are three of our party somewhere with the flying machine, and the Indians have

been shooting at them."

"I'll try it," declared the man, instantly. "I can usually call them together with this horn," and he raised it to his lips again and blew another

mighty blast.

"I have had this bunch of Aleuts six months," he explained, when he got his breath again. "They are good workers, but as superstitious as you can imagine. They are particularly shaky just now, for a number of queer things have happened lately in these parts. There is a volcano somewhere in action—we had a storm of ashes a week ago. And night before last there was a positive earth-shock."

"You seem like a pretty intelligent man," grunted Andy Sudds, in his blunt way. "What are you doing up here in this heaven-forsaken

country?"

"Why, I am an oil hunter," said the fat man, simply.

"A what?" repeated Andy and Mark together.

"Oil hunter. My name is Phineas Roebach, and I am in the employ of the Universal Oil Company. I am here—as I have been in many lands—boring for petroleum. You understand that my mission is semi-secret. If we find oil here we shall obtain a grant from the Government, or something like that."

Just at that moment Mark Sampson was not particularly interested in the odd-looking Mr. Roebach or his business.

"Blow your horn again, sir," he begged. "Call off your Indians. They may shoot our friends."

"If your party is all dressed as peculiarly as yourself, young sir," said Phineas Roebach, "my Aleuts could scarcely be blamed for taking a pot shot at them."

Then he blew the horn mightily for the third time.

CHAPTER IX

THE EARTHQUAKE

THE long twilight which preceded full day had now grown so strong as to reveal matters more plainly about the spot where Mark and Andy Sudds had disembarked from the flying machine. They soon saw several objects running through the grove toward them, and these objects proved to be the returning Indians.

There were half a dozen of them, and they were all armed with rifles. The moment they beheld the old hunter and the youth, with Phineas Roebach, they gave every indication of shooting, for they stopped and raised their rifles,

pointing them at Mark and Andy.

Mr. Roebach sprang between his Aleuts and his visitors and began to harangue them angrily in their own harsh dialect. However, his huge body so entirely sheltered Mark and Andy that neither was much terrified by the Indians. Besides, the Maine hunter advanced his own rifle and calculated he could do considerable execution with it while the red men were hesitating.

"They believed you all spirits of the air," said

the oil man, turning finally to speak to his new friends. "They were much frightened."

"Ask them for news of Professor Henderson

and the others," begged the anxious Mark.

"They chased the crippled flying machine for some distance, but did not find it. My horn bade them return," replied Mr. Roebach.

Even as they started to walk with the oil man and his sullen Indians toward various shacks which they saw through the trees, and lower on the mountain side, they heard a hail and looked up to see Professor Henderson, Jack Darrow, and the negro, Washington White, descending the mountain in their rear.

"This is your party; is it?" demanded Mr. Roebach.

"Yes, sir," said Mark.

"Bring them directly to my cabin. The Aleuts will not hurt you, now that they know we are friends."

He hurried away, but Andy handled his rifle very suggestively and kept both eyes on the red men. The latter, however, kept to themselves and only stared at the crew of the *Snowbird* with great curiosity.

"Hurrah!" quoth Jack, when in earshot. "Here they are, safe and sound, Professor!"

"We have been just as afraid that something bad was happening to you," Mark said, quickly. "Where's the machine?"

"Your beautiful 'plane is badly wrecked, Mark, my boy," said Professor Henderson. "But I believe we shall be able to repair it in time. We are not, however, I feel sure, far from Aleukan. Do those men speak English?"

"Not much of it, I reckon, Professor," said Andy Sudds. "But they have got mighty nasty dispositions. If it wasn't for the fat man I

reckon they would jump on us."

"He told us to follow along to his cabin," Mark proposed. "I do not think these Indians

will touch us."

"They'd better think twice about it," said the belligerent Andy, pushing in between the professor and the Aleuts, as the whole party descended the mountain side toward the place where the oil man had pitched his camp.

As they proceeded the light grew and the newcomers to Alaska identified objects about them more clearly. Near at hand was the framework of a boring machine, or derrick. The professor began to notice a deposit of ash that lay thickly on the ground in sheltered places.

"How remarkable—how very remarkable!" he ejaculated. "One would think there was a

volcano in action very near here."

Mark repeated what Phineas Roebach had said about the 'quake and the storm of ashes. The professor began to rub his hands together and his eyes twinkled.

"I declare! I declare!" he repeated. "A seismic disturbance in this locality? Ah! our visit to Alaska for Dr. Todd may repay us nobly indeed."

Washington White's eyes opened very wide and he demanded:

"What's disher t'ing yo' calls 'sezmik,' Professor Henderson? I suah don't understand no sech langwidge."

"He means an earthquake, Wash," said Jack, as the professor paid no attention to the darkey's

question.

"Gollyation! is we goin' ter collek a nearthquake along wid dat chrisomela-bypunktater plant? And what good's a nearthquake w'en you got him?"

This unanswerable question of the darkey's fell flat, for the party just then reached the huge, two-roomed log cabin in which Phineas Roebach made his headquarters. The "oil hunter," as he called himself, appeared in a costume more fitted to the rigor of the weather.

"Come right in, gentlemen," was his cordial cry. "I have an Indian woman here who can cook almost as well as white folks. At any rate, she can make coffee and fry bacon. This is Professor Henderson? Glad to meet you, sir," and so went on, being introduced to the whole party.

The professor immediately began to question

the oil hunter regarding the exact situation of his camp and learned that they were but a hundred and fifty miles from Aleukan. Phineas Roebach had a plentiful supply of dogs and sleds, too, with a goodly store of provisions. If worse came to worst and the flying machine could not be at once prepared, Mr. Roebach could supply the party with transportation to the Indian settlement where Professor Henderson would meet his own supplies from Coldfoot and there could obtain other dogs and sleds to go on to the valley where the chrysothele-Byzantium was supposed to flourish.

"And the road from here to Aleukan is a good one at this season of the year. More than half the way you travel over a glacier, and as the icefield has not been in motion for ages, it makes a fine highroad," the oil hunter declared.

They were discussing these matters during breakfast, and everybody was feeling particularly thankful over the safe descent of the aeroplane, when they were startled by a sudden, jarring shock. The cabin rocked and the boys, at least, felt a qualmishness in the pit of the stomach that forbade further eating.

"What's that?" demanded Andy Sudds.

Washington White dropped the plate he was carrying to the table and ran to the door. Before he could open it, the door was broken in by the

Indians, who came pouring in, loudly jabbering in their native tongue.

"A 'quake, sure enough!" ejaculated Phineas Roebach, getting quickly on his feet.

As he spoke, there was a repetition of the shock, only greatly increased. The oil hunter was thrown to the floor, as was everybody else in the house who was not seated. The roof of the cabin creaked and threatened to descend upon their heads.

The Indians, uttering cries of alarm, scrambled out of the cabin faster than they came in. But they had nothing on Washington White there. He was the first person to get through the door.

The white people followed the others in quick time. Jack and Mark felt that if the cabin was going to fall, the open air was the safer place. Here, however, it seemed that they could not keep their feet. They reeled about like drunken men, and the forest trees bent and writhed as though an invisible wind tore at them, whereas the fact was that the wind had fallen and it was a dead calm.

The air about them seemed to rock with the shock, there was a dull roaring sound which hummed continually in their ears, and the vibrations of the earth continued. They were indeed experiencing a most serious earthquake.

CHAPTER X

THE BLACK DAY

THE 'quake was over in a very few moments; the Indians and Washington White, however, cowered upon the ground for some time, crying out their fear of what they considered supernatural phenomena. Jack Darrow and Mark Sampson were not frightened in the same way as the darkey and the Aleuts; nevertheless they were much shaken.

Professor Henderson, however, displayed naught but the keenest interest in the scientific side of the happening. He clambered to his feet the moment he could stand, and observed:

"A most pronounced seismic disturbance—I

should say earthquake."

"I should say it was pronounced!" grunted Phineas Roebach. Being a fat man, he had fallen heavily. He was now rubbing himself tenderly where he had been bruised upon the hard ground. "This shock beats the one we had the other day."

"Not a shock, my dear sir," said Professor Henderson, quickly. "An earthquake is not, strictly speaking, a shock at all. Within the past twenty years science has learned to measure and to study earthquakes. If we have learned nothing else, we have learned that an earthquake is not a shock."

"It tumbled us about a whole lot, then, Professor," said Jack Darrow. "What would you call it, if not a shock?"

The phenomena being over for the time—as all could see—they returned to the cabin to complete their meal. Roebach had said something soothing to his Indians, but they, like Washington White, preferred remaining in the open. Wash sat down beside the cage of his pet rooster, and declared to the boys when they urged him to come in again:

"No, sah! I ain't hongry, nohow. An' w'edder de professor am right dat dese yer earthquakes ain't shockin', I kin tell yo' right now dat it shocked me! Nor I ain't gwine ter gib it no secon' chance ter tumble dat ruff down on ma haid—no, sah!"

Once more at the breakfast table, with the affrighted Indian squaw waiting upon them, the professor took up the topic of earthquakes again, in answer to Jack's observation.

"From the time of the ancients to the middle of the last century the phenomena of earthquakes were observed and described upon countless occasions," he said. "Yet even Humboldt's 'Cosmos,' published as late as 1844, which summarized the then existing knowledge on the subject, did not suggest that earthquakes should be studied like other mechanical motions.

"The effects of the great Neapolitan earthquake of 1857 were so studied by Mr. Robert Mallet," continued the professor. "He disabused his mind of all superstition, threw away all the past mysteries, and attacked the problem from its mechanical side only. He believed that an earthquake was a series of shocks, or blows; but what he learned led other and later students to the discovery that an earthquake is not made up of blows at all."

"That's all very well to say," grumbled Mr. Roebach. "I'm pretty solid on my feet; but what was it but a shock that threw me down?

Tell me that, sir!"

"Very easily explained," said the scientist, smiling. "Which will the quicker take you off your feet—a blow from, say, Jack's fist, or your stepping inadvertently upon a piece of glare ice? The ice, because it affords you so insecure a footing, is likely to throw you easier than a pretty solid blow; eh?"

"True enough," admitted the oil hunter, smiling at Jack. "Although Darrow looks to be a pretty husky youngster."

"My point is this," pursued the professor.

"An earthquake is a continuous series of intricate twistings and oscillations in all possible directions, up and down, east and west, north and south, of the greatest irregularity both in intensity and direction. This writhing of the earth—of the very foundations of the ground we walk on—caused our recent overthrow," concluded Mr. Henderson.

But the two boys were much more interested in the possibility of there being an active volcano in the neighborhood. The volcanic ash which covered the leaves and grass like road-dust assured them all that some huge "blow-hole" of the earth was near.

"I wasn't looking for no such things as volcanoes," said Andy Sudds, seriously, "when I shipped for this voyage. I reckoned volcanoes blowed mostly in the tropics."

"Alaska is a mighty field of active volcanoes," declared Professor Henderson. "But they have been mostly active on the Pacific coast, and among the islands which form a barrier between that ocean and Bering Sea. Islands have been throw up, while others have sunk there because of volcanic disturbances, within the last few years."

"And I presume the earthquake and the vol-

canic eruption are closely connected?" suggested Mark.

"We may safely believe that," agreed the professor. "I am sorry my instruments are not at hand. I sincerely hope none was damaged when the Snowbird made such a bad landing."

"And I'd like to give the machine an overhauling at once to see just how badly she's damaged," Jack Darrow said, hastily. "What do

you say, Mark?"

"I'm with you," returned his chum. "Can't we take Andy and Wash, Mr. Henderson, and go right up to that hollow and see what needs to be done to the flying machine? Perhaps we can get off for Aleukan by to-morrow if we hustle."

"If you boys think you can repair the damage done the machine in so short a time," agreed the professor, doubtfully. "But you know we must at least arrive at Aleukan in time to meet the train from Coldfoot. If the Snowbird cannot be launched again, we will have to see if our good friend here, Mr. Roebach, can fit us out with dogs and men."

"That I'll do to the best of my ability," said the oil man, rising. "But I'd better get out now and set my men to work. I am boring in a new place this week, and it looks promising. We are

down a hundred and twenty feet already."

They put on their outer garments and left the cabin. Although this was summer weather, there was a sting of frost in the air even as it neared mid-forenoon. But the sun was strangely overcast, and that might account for the drop in temperature.

"Disher day fo'git ter grow," complained Washington, rolling his eyes until, as Jack suggested, they could see only the whites of them in the dark, and the gleam of his teeth. "'Nstead o' bein' as sunshiny as it doughter be arter dat storm, it's suah growin' night fast! 'Taint a full-grown day, nohow!"

"Sort of stunted; is it, Wash?" chuckled Jack.

Andy Sudds here spoke decisively:

"I been tryin' to make out what it was, like feathers, a-touchin' my face. But it ain't snow. It's ashes!"

"Volcanic dust!" cried Mark.

"That volcano must be active again. That's what brought about the earthquake," said Jack. "And the darkness. What we thought was a fog over the sun must be a cloud of ashes."

"This ain't no place for us," declared Andy.

"I wish we were back at that man's house."

"Or could find the Snowbird pretty soon," added Mark.

"We're going right for it—I'm sure of that," said Jack, cheerfully.

And scarcely had he spoken when the four suddenly clung to each other, rocking on their feet! Washington White shrieked aloud, fell upon his knees, and it took but little to drag the boys and Andy Sudds with him.

"The whole world is done rockin' ergain!" wailed the darkey. "Dis is de end ob de finish!"

The vibrations of the ground grew in strength. The air about them seemed to shake. The darkness was so intense that Jack, holding a shaking hand before his face, could not distinguish its outline. And all the time the volcanic ash drifted down through the writhing tree-tops, while the boys and their companions were unable to stand erect.

CHAPTER XI

THE WONDERFUL LEAP

Unlike the former trembling of the earth, this experience gave no immediate promise of cessation. The world rocked on in awful throes—as though it really was, as the black man feared, the end of all material things. Jack and Mark rolled upon the ground in the grove of huge trees, clinging to each other's hands, but unable to rise, or to find their two comrades.

A rising thunder of sound accompanied this manifestation, too. And, after some stricken minutes, the boys realized that it was thunder.

With the earthquake and the storm of volcanic ashes, came an electric disturbance of the atmosphere, the like of which neither of the boys had ever dreamed. They had felt the "itch" of the electric current just before the 'quake. Now the hair on their heads rose stiffly like that on the back of an angry cat, and when Jack and Mark chanced to separate for a moment, and each put out their hands to seize the other, the darkness under the trees was vividly shot through

for an instant with the sparks which flew from their fingers.

Washington White began to bawl terrifically at this display of "fireworks," as he called it.

His lamentations were well nigh drowned by the rolling thunder. This latter did not sound in ordinary explosions, or "claps," but traveled in rapidly repeated echoes across the skies. The thick cloud of ashes which obscured the sun and the whole sky was cut through occasionally by a sword of lightning; but mostly the electricity showed itself in a recurrent, throbbing glow upon the northern horizon, not unlike some manifestations of the Aurora Borealis.

But even this uncertain—almost terrifying—light was of aid to the boys; Jack, at least, remembered very clearly the way to the wrecked flying machine, and of course the old hunter was not likely to lose his way in as black a night as ever was made.

They struggled on between the intervals of pitch darkness, for the trembling of the earth had again ceased. The visitation had been much heavier than they had previously suffered.

"The best thing we can do," muttered Mark in Jack's ear, "is to fix up the *Snowbird* and beat it away from here just as fast as we can. This is altogether too strenuous a place for us, believe me!"

"If we only can!" responded Jack, secretly as worried as his chum. "This is a pretty fierce proposition, Mark. Just think of our bonny Snowbird wrecked on her first voyage! It's mighty hard; eh, chum?"

But the duty before the two boys just then was to find the wrecked 'plane and see what could be done with it. The thunder continued to mutter and the intermittent flashes of electricity helped them somewhat in finding the way to the spot where the *Snowbird* had made her final landing. But the fall of volcanic ash continued and the darkness, between the lightning flashes, remained as smothering as before.

They reached the spot, however—seemingly a small plateau on which the huge trees did not encroach, giving them plenty of space for a flight if they were fortunate enough to get the Snow-bird in condition for such an attempt.

There were both electric lamps and lanterns in the machine and Mark sent Washington White to light every one while he and Jack went over the wrenched mechanism. Andy Sudds stood guard with his rifle, or ready to lend a hand should the boys need him.

The storm in the clutch of which the flying machine had traveled so many hundred miles had wrenched her not a little. And the two landings she had made on the mountainside had done her

no particular good. There was a broken plane, any number of wires to splice, and bent rods innumerable.

These were the more apparent injuries. But the more delicate machinery of the Snowbird required a thorough overhauling. It was absolutely necessary for them to have the use of a forge, and Jack had already learned that such an article was among the oil hunter's possessions at his camp.

They were a solid three hours putting to rights the machine and correcting the damage done to her smaller parts. Then, with several rods to be straightened and the light framework of the broken plane, that must be put in the fire for a bit, the party started down the mountain to Phineas Roebach's camp.

The four had left the plateau where the Snowbird lay and were just descending into the forest, carrying two storage battery lamps with which the easier to find their way.

There was no preliminary trembling of the earth or the air. There was an unheralded clap of sound—a sharp detonation that almost burst their ear-drums.

They did not fall to the ground; the earth, instead, seemed actually to rise and smite them!

A cararact of sound followed, that completely overwhelmed them. They realized that the

huge trees were swaying and writhing as though a sudden storm-breath had blown upon them. Had a tornado swept through this wood no greater danger could have menaced them. Trees about them were uprooted; many bent to the earth; some snapped off short at the ground—great boles two and three feet through!

Jack and Mark, with Andy Sudds and the terrified Wash, would have been destroyed within the first few seconds of this awful upheaval had it not been for a single fortunate circumstance. When the cataclysm was inaugurated the first shock drove the four into a sort of hollow walled about with solid rock. Upon this hollow fell the first huge tree trunk of the flying forest—and it sheltered them instead of crushing them to death.

The four had but small appreciation of this—of either their temporary safety, or the perils that menaced them. Suddenly the thick air semed to stifle them. They could neither breathe nor see. The lamps had been lost when they were flung—like dice in a box—into the rock-sheltered hollow.

As the huge tree fell across their harbor of refuge, they all lost consciousness.

What happened during the next few minutes perhaps it was a quarter of an hour—none of the little party of adventurers ever knew. It was

Jack who first aroused.

The whole world seemed still shrouded in pitch darkness. But he could breathe without difficulty and he sprang to his feet with a peculiar feeling of lightness as he did so.

But then he stumbled over Mark, and his

chum came up, too, ejaculating:

"What is it, Jack? What is the matter now?"

"You can search me!" responded the other boy. "If this sort of business keeps on I shall wish, with Wash, that we'd never come to Alaska."

"You can wish it with me!" grumbled Mark. "Washington doesn't want to get back to Maine any more than I do right now, Jack."

"We must complete the repairing of the

Snowbird," gasped Jack.

"And where are the rods—and the plane

frame? And where are the lights?"

They held on to each other in the darkness of this over-shadowed hollow and neither boy was willing to speak for a moment. Then Andy Sudds staggered to them.

"I've lost my gun!" he ejaculated, with a quaver in his voice that was quite surprising.

"And we've lost our lamps; but we'll find 'em, Andy," said Jack Darrow, curiously enough be-

coming leader of the expedition right then, instead of the man. It wasn't that the old hunter was frightened; merely, he did not know what to do in this emergency.

"Do you notice—?" began Jack, seriously,

and then stopped.

"Do I notice what, son?" responded Andy.

"I don't see how you can notice anything without a light," interrupted Mark querulously.

This statement seemed to arouse Jack's faculties completely. He did not continue his remark, but said:

"That's our first job; isn't it?"

"What's our first job?" asked the hunter.

- "To get a light. We can't find the flying machine, nor get back to Roebach's camp, without light. Why, it can't be more than mid-afternoon, yet it's as dark as a stack of black cats in a coal-chute."
- "And that's where I feel as though I'd been," declared Mark.
 - "Where?"
- "Fighting the cats in the coal-hole. Ouch! I'm lame and sore all over."

"We're sure up against it," repeated Andy.

"But there must be some way out, boys."

"Light is the first requisite," agreed Jack, more cheerfully. "Got any matches, Andy?"

"Plenty of 'em in a corked flask. I don't ever

travel without matches, son," returned the old hunter.

"But matches won't show us the way to Roe-bach's camp," complained Mark.

"Don't croak, old boy," advised Jack. "Let's have that bottle of cosmolene I saw you tuck in your pocket there at the Snowbird."

"I was taking that to the professor. He said he would want it," said Mark. "What's it

good for?"

"You'll come pretty near seeing in a minute, Mark," returned the quick-thinking Jack. "Here, Andy! let me have that woolen scarf you wear. You'll have to say good-bye to it—bid it a fond farewell."

"I'm sort of friendly to that scarf, youngster," said the hunter. "What's to be done to it?"

"It's going to become a lamp wick right here and now," declared young Darrow, promptly. "So! I've got the cosmolene smeared on it already. There! that's the last of it. Now a match, Andy."

"Joshua!" grumbled the hunter. "It is

good-bye, I guess!"

The match flared up. Jack touched it to the greasy woolen cloth. It began to burn brightly and steadily at once.

"Now, you all hunt around for the things we dropped. If we can find them we'll push out

right away for the camp and the professor. You know he'll be worried about us, just as we are worried about him!"

With the light of the improvised torch flaring about them they saw what manner of place they were in. The huge trunk of the fallen tree had not entirely shut them in the hole. Mark got in position to climb out beside the tree-trunk.

There was a small, tough root sticking out of the bank above his head. He leaped to catch it with one hand, intending to scramble out by its aid.

And then the very queerest thing happened to him that could be imagined. The spring he took shot him up through the hole like an arrow taking flight.

He never touched the root, but over-shot the mark and disappeared with a loud scream of amazement and alarm into the outer world.

CHAPTER XII

THE GEYSER

"SOMEBODY grabbed him!" shouted Andy Sudds.

"Oh, lawsy-massy-gollyation!" yelped the frightened darkey. "Massa Mark done been kerried up, suah 'nuff! I tole youse disher was de end ob de worl'."

But Jack, followed by the old hunter, sprang to the opening. How light they were upon their feet! The experience of moving shot this surprising thought through Jack Darrow's mind:

"I'm as light as a feather. I have lost half my weight, I declare! How can that be pos-

sible?"

Andy Sudds was evidently disturbed by the same thought. He cried:

"Somebody holt onto me! I'm going up!"

He did actually bump his head upon the tree trunk above them. But the next moment Jack scrambled through the opening, light and all, and came out upon the open ground.

"I'm here, Jack! I'm here!" cried Mark.

"But what's happened to me?"

"Whatever it is, it has happened to us all," returned his chum. "I seem to have overcome a good bit of the law of gravitation. Never felt so light in my heels in all my life before."

"What can it mean?" whispered Mark in his

chum's ear. "It's magic!"

"You've got me," admitted Jack. "I'm not trying to explain it. But I know that the air pressure on me isn't as great as it was. like we did when we were on the moon."

"Something awful has happened," suggested

Mark, his tone still worried.

"We can be sure of that," Andy Sudds said. "What shall we do?"

"Find that stuff we were carrying and get back to the professor with it," said Jack, briefly. "Here! I see the storage battery lamp—or, one of them at least."

Mark at the same time stooped to pick up two of the lost rods. Jack found the lamp to be in good order and gave it to Andy. The torch was rapidly becoming exhausted.

"Come, Washington," urged Jack, "you hunt around, too. We must find the parts of the airship we dropped. If we don't find them

we'll never get away from this place."

"And is we gotter go in de Snowbird, Massa Jack?" queried the darkey. "Has we jest gotter go in dat flyin' contraption? Gollyation!

dis chile hoped de walkin' would be good out ob Alaska. He an' Buttsy jest erbout made up deir minds dat dey wouldn't fly no mo'. Fac' is, I had some idea ob clippin' Buttsy's wings so dat he couldn't fly no mo'!"

"You can walk if you want to," said Mark, crossly; "but I want to get away from this part of the country just as soon as ever I can. If the flying machine was ready I'd only wait long enough to get the professor and then we'd start."

"Guess we're with you there, Mark," agreed

his chum, emphatically.

Meanwhile they were all scrambling about for the parts of the machine that had escaped them when the awful blast had knocked them into the hole and deprived them of consciousness. Fortunately none of the missing parts was very small and in twenty minutes of close scrutiny every piece was assembled. They did not find the second hand lamp, however.

"Now we must hurry back to the professor," Jack urged. "I know he will be dreadfully

worried."

"Do you notice that it's getting lighter, boys?" remarked Andy Sudds.

"I believe you!" cried Mark. "The ash

has stopped falling, too."

"I know that the air is a whole lot clearer," rejoined his chum. "And it's colder—or is it

rare? Doesn't it seem like mountain air, Mark?"

"We've been half-stifled for so long I reckon the change to purer air is what makes it seem so peculiar," returned his friend.

Yet Mark was puzzled—indeed they all were more or less disturbed by the strange feeling that possessed them. Unless Washington White was an exception. The darkey went along blithely despite his expressed distaste for their surroundings, and as they came to the lower end of the grove of big trees, he began to run.

It had grown lighter all the time as they advanced. The cloud that had hidden the sun seemed to be rolled away like a scroll. The party could see all about them. The ashes lay from two to eight inches deep on the ground. Plants and shrubs were covered with the volcanic dust, and it was shaken from the trees as they passed.

Washington White bounded along like a rubber ball. He came to the plateau that overlooked the sheltered camp of the oil hunter. As the darkness retreated across the valley, the derrick and the shanties belonging to Phineas Roebach's outfit appeared.

Suddenly several gunshots rang out in succession, and the sounds startled the boys and Andy.

Wild cries likewise arose from the valley. The commotion was at the camp.

"The professor is in danger!" cried Andy

Sudds, and began to run.

His first leap carried him twenty feet; his second took him over a fallen tree-trunk six feet through.

"By Joshua!" ejaculated the startled hunter.

"I've got springs in my shoes; ain't I?"

"What can it mean, Jack?" panted Mark, as the boys hurried on, side by side.

Jack Darrow had no answer to make. He was as amazed as his companions, and perhaps a little frightened as well.

They hurried after Andy and Wash; but the latter was far ahead. There was a second volley of gunshots and at that moment Wash came to the verge of the steep descent to the camp.

He beheld some half dozen Indians—all swart, lank, fierce-looking bucks—just at the

point of rushing the oil borer's hut.

It was no time for explanations, nor for hesitancy. Wash, like the others behind him, believed that the Indians were making an attack upon their master, and the first thought of all was that Professor Henderson was with the oil man, and in peril.

"Gollyation! Git erway from dat dar door!"

bawled Washington.

The black man was as timid as a fawn as a usual thing; but he was devoted to the old professor and he had that feeling of gratitude for Mr. Henderson that overcame his natural cowardice. When the Indians, without giving him a glance, rushed at the door, and a single shot from the half-opened window missed them by ten feet, Wash uttered another yell and sprang to reach the descending path.

But this strange lightness of body that had overtaken them all during the past hour, played Wash a strange trick. Instead of landing a few feet down the steep way, he cast himself fairly into the air, twenty feet out from the hillside, and sailed down upon the startled Indians like some huge black buzzard.

The red men glanced up over their shoulders and beheld the flying man. The sight seemed to terrify them. With loud cries they started to run; but two of them could not escape the flying black man.

Wash landed sprawling upon their shoulders bearing both Aleuts to the ground. The door of the cabin was dashed open and Phineas Roebach ran out and seized the two red men before they could scramble up. The others were streaking it for the woods as fast as they could travel.

[&]quot;Gollyation!" quoth Washington White.

"Has dem rapscallawags done harmed de ole perfesser?"

"I am perfectly safe, Washington," said Professor Henderson, appearing at the door of the cabin. "And here are the boys and Andy. I am relieved to see you all alive again—I really am."

"Ain't this been a gee-whizzer of a storm?" queried the oil man, holding the two Aleuts at arm's length.

Already the boys and Andy were tearing down the steep path. They traveled like goats—as surefooted and as light upon their feet. Professor Henderson watched their career in evident interest. Then, gingerly, trying the feat curiously, the old gentleman sprang for a small boulder beside the cabin. He leaped entirely over it.

"Light! Light as air!" he murmured.
"This is a most puzzling circumstance."

"Now, you fellows," growled Phineas, urging the two Indians along to the boring machine. "You'll get to work. I don't care if your friends have run off and left you to do it all alone. I tell you we've near struck oil. I know the signs." Then he gabbled at them a bit in their own language and the Aleuts took hold of the heavy bar by which the earth-auger was turned. "They left the job—the whole of them—when

that last clap came," he explained to the boys.

But Jack and Mark were not much interested in the oil hunter's affairs. Only Jack remarked that he thought the fat man had been foolish to arm the Aleuts, or allow them to be armed. The Indians had evidently quite gone off their heads.

"They believe that we are spirits of the air," Professor Henderson told his friends. "That we are evil spirits. And I guess that Washington flying down upon them as he did will clinch that belief in their minds."

"Did you ever hear of anything like it before in all your days, Professor?" cried Jack. "Why, we can all jump like deer. I never saw anything like it."

Before the professor could reply there came a shout from the direction of the oil man's derrick. The two Aleuts, with their driver, had been working only a few moments at the auger. But perhaps the tool, so far down in the earth, had been ready to bite into the gas-chamber. There was a rumble from beneath that suggested to all that another 'quake was at hand. Then the Indians and the fat man started away from the derrick on the run.

The auger and piping shot out of the hole like stones driven by a catapult. Following the broken tools was a column of gas, gravel, water and mud that rose two hundred feet in the air.

The earth trembled, and squawking like frightened geese, the Aleuts took to the tall timber, following the trail of their more fortunate comrades who had gotten away before. And they were not alone in their fright. The white men were likewise amazed and troubled by the marvelous geyser. It was as though the oil man had bored down to the regions infernal.

CHAPTER XIII

NATURE GONE MAD

THE fat man came panting to the group surrounding Professor Henderson, just as fast as he could move his feet. And never before had the boys, or the professor, or Andy, or the black man beheld such an apparently heavy man get over the ground at such speed.

"A very mysterious thing," the professor was saying again—and he did not mean the roaring, spouting geyser that was shooting gas and debris a couple of hundred feet into the air.

Nor did he have time then to explain what seemed so mysterious to him. The descending debris threatened them all, and although they retired in a more dignified way than had the Indians from the vicinity of the spouting monster, they were all more or less disturbed by this new phenomenon.

Stones weighing from ten to twenty pounds were projected into the air, some of them crashing through the roof of the cabin when they descended. The mud and water grew into a pool, then a lake, completely surrounding the

spot where the derrick had stood and where the

geyser continued to spout.

"We surely must move out," the oil man said, in much perturbation. "My shop yonder seems to be a target for those rocks. There goes another!"

"And we have got to use a forge to weld and straighten these damaged rods!" Mark cried,

worriedly.

"Sorry, boy. I don't believe any of us will be able to get at my forge till this shower of missiles stops," said Phineas Roebach.

"What needs to be done to the flying machine?" asked the professor, briskly.

you sure it can be repaired, Mark?"

"Very sure, sir," replied the boy.

"And you, Jack?" repeated Professor Henderson.

"We could fix it up all right before midnight," declared the other. "But we must have

a forge."

"This geyser will stop playing after a bit, we will hope," said the professor, encouragingly. "If the flying machine is not past repair we need not worry. Nor need you, Mr. Roebach. We can all get away from this region if it becomes necessary."

"Ma goodness!" gasped Washington White, who had listened to this speech with his mouth

ajar. "Don't you consider, Perfesser, dat dere has erbout 'nuff happened yere fo' ter make it seem quite necessarious dat we evacuate de premises sorter promscuous an' soon like? Why, I done was sure de end ob de finish was at hand when dat las' big eart'quake hit us—I suah did!"

"I must say I don't care to linger around

here myself," muttered Andy.

"We must not lose our courage," said the professor. "Never before have I been in a position to study seismic disturbances so closely. I only regret I have not with me here the instruments I brought in the Snowbird. And we must somehow learn the location of that volcano which is in eruption."

"It's all right to learn the location of it," whispered Mark to Jack. "But if we learn that we'll be pretty sure to fly in the opposite direction—what do you think?"

"Believe me," said Jack, "I've got enough. The old professor is all right, but he doesn't think about danger when his interest in any natural phenomena is aroused."

The roaring of the geyser was a most unpleasant sound and the upheaval of the stones was more than unpleasant—it threatened danger to them. The vicinity of the oil-boring had been exceptionally free from small stones; but in half an hour one might have picked up a two-horse cartload weighing from ten to twenty pounds each.

Washington had run in and saved Buttsy in his cage, and they had all retired now to the little plateau from the verge of which Washington had made his famous leap to the backs of the two Indians. Phineas Roebach had released the dogs from the shed where they had been confined. There were twenty of the animals—three or four teams—fierce and intractable brutes as a usual thing, unless under the sharp control of their Indian drivers. But now they came whining and crouching to the feet of the human beings grouped together on the plateau.

The evening was growing clear; but the geyser continued to roar like the exhaust of some mighty engine and to throw off filth and evil-smelling gas. Professor Henderson stood there, wrapped in his furs, and penciled notes in his book with a grave enjoyment of the scene that made his companions wonder.

But Andy Sudds read signs other than those of which the professor made notes. Jack saw the old hunter watching the sledge dogs with a puzzled frown wrinkling his brow.

"What's the matter with you, Andy?" queried the youth.

"Them dogs," declaimed the hunter.

"What about them?"

"They're plumb scart. All this disturbance and mystery has got in on them. They act just like they were seeing spooks."

"Spooks!" repeated Jack in surprise. "Do

you mean to say dogs can see ghosts?"

"All dogs can smell out when things is going to happen," declared Andy Sudds. "They're better prophets than old women, you bet you! And these dogs act to me as though we hadn't come by the worst of our trouble yet."

Oddly enough it was Professor Henderson himself who took up the suggestion that more

trouble was in the offing.

"It is my opinion, Mr. Roebach," he said, to the oil man, "that you had better remove such possessions as you can from this valley at once. And put your dogs somewhere so that they cannot run away like your Indians. If we are balked in attempting to repair the flying machine, these dogs and sleds are what we must depend upon."

"To escape from this country, you mean,

sir?" asked Mark.

"To reach Aleukan and the valley where the chrysothele Byzantium is to be found," replied the professor, promptly.

But it was to run the chance of a rain of death to go down into the basin where the shop and cabin were situated. Further up the hillside the dogs' quarters had been built, and the sleds were there, too. The oil man and Andy Sudds looked at one another.

"All the stores are in the far end of the cabin," grunted Roebach. "And you can see what that geyser is doing to the shed where the tools are. There goes another stone through the roof!"

"If we could only get hold of that portable forge," said Mark.

"And that is what we must get," exclaimed Jack. "Is the door of that shanty locked, Mr. Roebach?"

"It's nothing but a skin door," replied the oil man. "But it's at the far side—fronting that old mud-slinger. Did you ever see the beat of that? That stone must have weighed fifty pounds."

But Jack Darrow noticed a certain fact. That was that the debris from the spouter was not shot so high as at first. Therefore, it was not being spread abroad so far.

Only small stones, now, were dropping around the tool shed. And the rear wall of the shanty was made of the most flimsy material.

Suddenly he slipped down to one side and got upon the level of the valley. Nobody but Mark noticed his movements for a minute, and to him Jack had given a warning glance.

The boy had crossed to the back of the tool-

shed before the men of the party noticed his absence from the knoll.

"Look at that reckless fellow!" ejaculated the professor. "Come back here, Jack!"

But Master Jack was already at the shed. He tore away a part of the rear wall in a moment. The mud rained down upon him, but fortunately no rock came his way.

There was light enough yet for him to see inside the hut. Andy Sudds had already started after Jack, and when the latter dragged the small forge out of the shelter, the old hunter picked it up, flung it upon his shoulder, and trotted back to the highland.

"Come away! Come away, Jack!" cried the professor again.

But the youth stopped long enough to obtain a sledge hammer and other tools that he knew they should need. As he ran from the hut two stones shot out by the geyser crashed through the roof; but he escaped all injury.

He was plastered with mud from head to foot, however, when he regained the high land.

"It was worth it," Jack declared, laughing, when he was safe. "I want to get away from this neighborhoood just as quick as we can. And if we can fix the *Snowbird* let us do it this very night and take our flight for other climes. We

don't know when another earthquake or volcanic

eruption will occur."

"Very true, my boy," admitted the professor, with a sigh. "At least, we will endeavor to repair the damage done to your flying machine at once. But there is much going on here that interests me."

Andy and Jack set up the forge and in a few minutes they had a glowing fire in it. Then the boys set to work welding the broken rods and

straightening those that had become bent.

Meanwhile Mr. Roebach hauled out his sled and whipped the dogs into line so that he could gear them up. The canines acted badly because they were more used to their Indian masters. When the boys had done their work, however, the oil man was ready to transport them all up the mountainside to the plateau where the Snowbird lay.

His cabin was by this time riddled by the flying stones and everything in and about it was plastered with mud. It would have been foolhardy indeed to attempt to get at the provisions.

"You see," Mark said, "we are forced to get away in the *Snowbird* at once, or to escape to some town where we can get food. There isn't much left of our stores on the flying machine." "And what will Mr. Roebach do about his dogs? They must be fed," said Jack.

"He'll have to abandon them if he goes with

us on the Snowbird," returned his chum.

It was now the long twilight of the Arctic evening. None of the party had eaten since breakfast and they felt the need of sustenance. If nothing else, this need of food would have hurried the party on to their destination farther up the mountainside.

As they advanced the roaring of the mud geyser diminished. The professor continued to be much interested in the condition of Nature about them as they climbed the hill. The uprooted trees, and the huge trunks broken off by the final upheaval of the earth, made the old gentleman look very serious indeed.

"There has been a mighty change in the face of Nature," he said thoughtfully. "You boys were saved from death by a miracle, I have no

doubt."

"We were all knocked senseless for a time," Mark told him.

"Indeed? And so were we at the camp. All of us lost consciousness. Dear, dear! what happened during those minutes that we were all unconscious? Something of the greatest importance—some great change took place that now we can scarcely understand."

"And what do you make of that over yonder?" queried Jack, suddenly pointing toward the northern horizon.

A deepening glow had appeared in that direction. Rapidly it increased until there appeared above the horizon the edge of a huge disk. Its light was mellow like the moon's; but whoever heard of the moon rising in the North?

"What can that possibly be, Professor?" cried Mark as they all gazed in wonder at the rapidly increasing body rising into complete view.

Professor Henderson shook his head slowly. For once he was surely at a loss to explain a scientific phenomenon. The huge globe, evidently reflecting palely the sun's light, mounted upward more rapidly than the moon ever crossed the heavens.

"All nature has gone mad!" gasped Professor Henderson at length. "Have we discovered a new celestial body? I never heard of such a thing—so near to us, too! Come, hurry on, boys. Let me get and mount the telescope. This new mystery must be solved."

CHAPTER XIV

ON THE WING AGAIN

THERE was no member of the party who was not amazed and disturbed by the strange happenings of the last few hours. The earthquake and volcanic disturbances, followed by the outburst of the geyser, and now capped by the appearance of a new and wondrous planet on the northern horizon, were happenings calculated to make more than Washington White shake with terror.

What Professor Amos Henderson really thought about this new celestial body it would be hard to tell. While the others chattered in their amazement—after his first statement—he remained strangely quiet.

But the moment the party reached the spot where the flying machine rested he went at once to the locker where he had stowed the very powerful telescope that he had insisted upon bringing with them from home. With Washington's help he was an hour in setting up the telescope and properly adjusting it, while the boys and Andy worked steadily upon the repairing of the flying machine. Roebach had loosed his dogs again and threw them the last bits of fish he had for them, and they were fighting over the putrid flesh at one side. The oil man watched the repairs with interest. He had agreed to travel as far as Aleukan with the party and there hire fresh Indians and sleds, hoping to find these dogs on his return. He had to have assistants and provisions before he could go on with his work for the Universal Oil Company.

"Merely that yonder oil-shoot turned into a mud-bath doesn't feaze him," chuckled Jack to Mark. "Earthquakes and volcanoes don't seem to bother that chap any more than they do

the professor."

"Just watch him now," suggested Mark, suddenly.

"Watch who-Roebach?"

"The professor," explained Mark.

The old gentleman was certainly deeply interested at that moment in his study of the great pale globe that was rising toward the zenith so much more quickly than any moon that the boys had previously seen. The professor was crouched at the mirror of the telescope gazing into it through the powerful lens. Suddenly he threw up his hands and staggered back from the instrument, turning a pallid face upon his companions.

"What done happened yo', Perfesser?" cried Washington White. "What done skeer yo' now? Dis suah am de startlin'est place dat we ebber got into. Gollyation! Ain't dat moon risin', dough?"

"It is no moon!" declared the professor.

"A most mysterious thing," Mark said. "Is it some great planet out of its orbit, sir?"

"It is a planet—of course it is a planet," admitted the professor, going back to his telescope with eagerness.

"And how light it is getting—almost like day," said Jack. "No moonlight was ever like this."

"Why, we're not as far away from that planet as the moon is from the earth," said Mark. "Suppose it bumps us?"

"All the more reason for our getting the Snowbird into flying shape," responded Jack. "Maybe we'll be able to escape the bump!"

"You can laugh," grumbled Mark. "But I

don't like the look of that thing."

"Evidently the professor does not like it, either," agreed Jack. "See him now."

Professor Henderson was gazing first into the telescope and then drawing upon a paper before him. For several minutes he was thus engaged. Finally he beckoned the boys to him.

"What do your eyes tell you that looks like?"

he demanded of Jack and Mark, pointing to the outline he had drawn upon the paper.

The boys gazed on his drawing in surprise.

It was Jack who exclaimed:

"Why, Professor, that looks a whole lot like an outline map of the Hudson Bay Territory, Canada, and Newfoundland. There's the mouth of the St. Lawrence, sure! What are you doing?"

"I have been drawing," said the gentleman, solemnly, "an outline of what I see upon that luminous body floating there in space," and he pointed a trembling finger at the strange planet.

"Impossible!" cried Mark.

"I do not think I am losing my mind," said the professor, testily. "It remains, however, that the outline of certain bodies of water and of land upon that luminous globe seem to be the exact counterpart of land-bodies and water-bodies on the Earth."

"But what does it mean?" questioned Jack.

"If I knew that," grumbled the professor, returning to his instrument, "I should feel better satisfied."

That some strange—some really wonderful—change had taken place in their physical surroundings, too, there could be no doubt. But what it was the boys could not imagine.

Of one thing they were sure, however: The law of gravitation had been partly overcome. And a second fact was discernible: There was a surprising rarity to the air they breathed, and had been since the fall of volcanic ashes had ceased.

In lifting the heavier tools they handled it was noticeable that they seemed lighter. And Andy Sudds surprised them all, when it became necessary to roll a log out of the way of the flying machine, by seizing the heavy timber and lifting it with the ease with which one might lift a small sapling.

"We've all become strong men—professional strong men," gasped Jack. "Wash is the champion jumper and Andy beats old Samson, I declare! What do you make of it, Mark?"

"If the professor cannot explain it, don't expect me to do so," returned his chum.

"It am de seriousest question dat has ebber come befo' us," declared Washington, looking wondrous wise. "Disher jumpin' has always been in ma fambly, howebber. We had some great jumpers down Souf befo' de War."

The boys hurried to finish the repairs. It was some time after midnight when they pronounced the Snowbird again ready for flight.

The professor had to be urged more than once to leave his telescope, however; and then he insisted upon setting it up on the deck of the flying machine. He would not discuss the situation at all; but his serious visage and his anxious manner betrayed to them all that he was disturbed indeed by the strange, pale planet he had so closely examined.

Mr. Roebach turned loose his dogs again and climbed gingerly aboard the flying machine.

"I've never been up in the air," he said, "and I must admit that I am somewhat more afraid of a flying machine than I am of an earthquake."

"No more earthquakes in mine, thank you!" cried Jack. "I'd rather sail on a kite than go through what we did yesterday."

They had studied the chart and laid the course for Aleukan without any difficulty. Now Jack strapped himself into the operator's seat and the others took their places, Washington White stowing his rooster carefully amidships as he had before.

Jack started the motor and the Snowbird began to quiver throughout her frame. He touched the lever by which the propellers were started. With a whir and a bound the flying machine left the earth.

Never had it sprung into the air so quickly before. It shot up at a sharp incline and was over the tree-tops in a breath. The indicator registered eighty miles an hour before the plateau was behind them. Then the pointer whirled to ninety—to a hundred—to a hundred fifteen miles an hour, and both Jack, in the pilot's seat, and the others gasped for breath.

Faster than when shot out of Professor Henderson's catapult the *Snowbird* winged her way into the northwest. Jack managed to keep her on an even keel. But he had the same feeling that he would have had, had he been hanging to the bit of a runaway horse.

Indeed, the *Snowbird* was practically out of his control.

CHAPTER XV

A PLUNGE TO THE ICE

JACK DARROW was a youth less likely to be panic-stricken than his chum; but just as Mark Sampson had lost his head for a few minutes on the occasion when the *Snowbird* was tried out, so Jack was flustered now.

The flying machine shot up at such a tangent, and so swiftly, that he was both amazed and frightened. The speed indicator showed a terrific pace within a few seconds, and when Jack first tried to reduce the speed he learned that the mechanism acted in a manner entirely different than ever before.

The motor made more revolutions a minute than she was supposed to make when pressed to the very highest speed. When he had raised the bow of the flying machine at the start she had shot up almost perpendicularly into the air. He was afraid she was going to turn a back somersault.

As he depressed the planes he found that it took much more depression to bring the Snow-bird down to even keel. And the rapidity with which they left the ground and soared upward was in itself enough to shake Jack's coolness.

Suddenly (being furnished with the professor's patented ear-tabs) he heard that gentleman calling to him from below:

"Get back to the five-hundred-foot level-

quick!"

Light as his head had become, and confused as he was, Jack realized what these words meant, and he knew enough to obey without question. He brought the *Snowbird* down the air-ways on a long slant and at a swift pace. He realized that, as they descended, he was able to breathe more easily and his head stopped ringing. For some moments he had felt like an intoxicated person in the vastly rarified plane of the upper ether.

The professor staggered to the young operator's side.

"Danger! Danger above, boy!" he gasped. "We cannot cross these mountains while—while the air is so thin."

"But we need not cross them to reach Aleukan?" suggested Jack, speaking with some difficulty himself. There was a pain in the region of his lungs and he saw that Professor Henderson was very pale.

"That is a fact," panted the professor. "Descend, Jack. Make it two hundred feet. Be

careful!"

For as the youth depressed the planes again the

ground beneath seemed to fairly leap up to meet them.

"What do you know about that?" gasped the young aviator. "She—she doesn't work at all like she used to."

"Less attraction," declared the scientist.

"What do you mean, sir?" cried Jack. "Has the law of gravitation lost its power over us—and over the flying machine?"

"There is a difference—a great difference," proclaimed Professor Henderson. "The power

of attraction is lessened mightily."

"What does it mean? What can it mean?" murmured the disturbed youth.

"I suspect—I fear—"

What the professor would have said was not spoken then. Mark interrupted by shouting:

"Look ahead! Look ahead! What is that-

a river?"

"There is no river of size in this locality," declared the professor, quickly, training his glasses on the white streak that appeared on the ground ahead.

Phineas Roebach struggled forward to the

operator's bench. He gasped:

"This is worse than I ever thought flying could be. Do you have to go so fast? I cannot get my breath. Hullo! That's the glacier ahead. The dog trail to Aleukan follows the ice for more than fifty miles."

"A glacier it is," agreed Professor Henderson.

"It seems pretty smooth, Jack. You can descend still farther."

That they were all suffering from the rarity of the atmosphere was plain. It seemed as though the envelope of breathable air surrounding the earth had suddenly become vastly rarified. If the atmosphere had been so changed all over the globe it would be a catastrophe unspeakable.

"We certainly can't cross these mountains—nor the Rockies," groaned Jack. "How are we

ever going to get home again?"

"If the air remains as it is now?" asked Mark.
"You're right! We're imprisoned in this part
of Alaska just as fast as though we were caged
behind iron bars."

"If we only had some of those torches we used on the moon," said Jack.

"What will we do, Professor?" begged Mark.

"Let us not lose hope," responded the old scientist. "First we will get to Aleukan and see if our provisions have been brought over from Coldfoot."

"I'll bet they haven't been brought across the range," said the pessimistic Mark. "If the air everywhere is so rarified the men would die crossing the mountains."

"Think of the people living on Mt. Washington—and other heights!" cried Jack, suddenly. "Why, they will be snuffed out like candles. It is an awful thought."

"We will hope, at least, that this fearful catastrophe is local," said the professor, seriously. "Have a care, Jack! Don't dip like that. We do not want to descend here."

It was extremely difficult to manage the Snow-bird, for she answered to the levers so much more quickly than before. The air pressure on the craft was so slight that at the least touch she mounted upward like a scared quail! The speed of the aeroplane had to be reduced, too; they traveled scarcely forty miles an hour.

On either hand as they winged their way over the great river of ice (it was quite four miles broad) sharp cliffs arose, guarding the glacier. These cliffs ranged from two hundred to a thousand feet high.

The professor, at once interested in such a marvel of nature, begged Jack to reduce the speed even more. They merely floated above the cracked expanse of whitish-green ice for some minutes.

"That's what the earthquakes did for it," said Phineas Roebach. "You see those crevasses and some of 'em mighty deep? Well, they weren't here the last time I came this way."

"She is in motion again, perhaps," suggested Professor Henderson.

"It ain't been in motion for ages-or, so the Aleuts say," responded the oil hunter.

"But there looks now to be some sagging forward. There is a crevasse splitting the glacier from wall to wall," proclaimed the scientist.

"We'd never be able to sled over this trail in the world!" cried Mark. "How would you pass such a vawning gulf as that?"

"It beats me what's happened here since I was across last," muttered Roebach, scratching his head in bewilderment.

The yawning ice was right beneath the flying machine. It was a hundred yards across at the surface. They seemed to be looking down for five hundred feet, or more, into its greenish depths.

Jack had turned the Snowbird's prow and they were drifting toward the western cliffs which guarded the glacier. Here the rocky heights were at least seven hundred feet above the ice.

Out of a crack in the high wall—from its eyrie without doubt-a huge female eagle suddenly shot down toward the drifting aeroplane. The flying machine seemed not to startle the great bird at all; it only angered her. Perhaps she had young up there in the cliff and she feared her hereditary enemy, Man, was coming on wings to deprive her of them.

With a scream of rage the eagle dashed herself directly into the face of Jack, strapped to the operator's seat. For once Andy Sudds had not his rifle at hand; and, the attack was so unexpected, it is doubtful if he could have come to the rescue in season.

With beak and claws the bird endeavored to tear at the youth's face. Jack jerked loose the transmitter and beat it to pieces over the bird, but without making her desist.

Again and again the feathered creature darted in, claws expanded and beak snapping. With one talon she raked Jack's right arm and shredded the heavy coatsleeve, the sleeve beneath, and scratched his arm. The next instant her iron beak snapped upon his left hand.

Jack Darrow was plucky, but the pain of the wound brought a scream to his lips. It was answered by the wild shrieks of the eagle.

And then, ere any of his friends could reach him (for the professor had gone back to the cabin), the boy, fighting for his sight—indeed, for his very life—by some unfortunate movement depressed the planes. Like an arrow from the bow the Snowbird shot downward into the yawning crevasse which split the glacier from wall to wall.

With a yell of terror Mark Sampson sprang forward to the operator's bench. But he was too late—if he could have done any good at all.

The Snowbird swung to one side. Her right forward plane crashed against the wall of ice, shattering some of the hard crystal. But on the rebound the fluttering flying machine sank lower. Jack tried to make her rise. She refused to obey the lever.

And then, with a suddenness that made them all catch their breath, the *Snowbird* plunged down into the ice-gulf and ended her dive with a terrific crash on a narrow shelf at least two hundred feet below the surface of the glacier.

CHAPTER XVI

PROFESSOR HENDERSON REVEALS THE TRUTH

THE force with which the flying machine had plunged into the chasm in the ice was sufficient to smash her keel-fin to bits. There was other damage done, too—how great this damage was the boys and the professor could not immedaitely discover.

They were all alive—that was one thing to be thankful for. And Washington White's Shanghai, aroused from sleep by the disturbance, began

to crow vociferously.

The Snowbird was wedged into a very small space upon the ledge of ice. At first view it was quite certain that she could not be launched again from this position by any ordinary means. And the steering gear was practically a wreck, so that she positively must be repaired before attempting another flight.

Jack's wounds were dressed by Andy first of all. Mark and the professor made some attempt to look over the wreckage. The disaster was so

great that Mark gave up hope.

"We're done for now!" he cried. "The poor

Snowbird is a wreck. And how are we ever going to get out of this hole?"

"Hush, my boy!" admonished the professor. "Don't lose your grip. This is truly a serious predicament; but we have been in tight places before."

"Nothing worse than this," grumbled Mark. "Nor half so bad. How are we going to get out of this chasm? Why, just as Washington says, we've been swallowed up like a duck gobbling a June bug."

"This is certainly a bad situation," Phineas Roebach remarked. "But, as the professor says, it isn't the worst that might happen."

"What worse could happen?" demanded Mark.

"Hold on! Don't you step too near the edge of this shelf," warned the oil man. "If you step off and fall clear to the bottom of this crevasse you'll probably find that a good deal worse than our present position. B-r-r! Isn't it cold?"

Two hundred feet below the surface of the ice river was indeed a cold spot. Washington produced all the warm clothing there was aboard the flying machine and all hands were glad to bundle up. Then the professor suggested that the black man prepare some hot drink and a ration of their food, while all gathered in the cabin for a discussion as to their future course.

"Our perilous situation is apparent," said Professor Henderson, quietly. "But there is always more than one way out of a serious predicament—sometimes there are a dozen ways."

"I'd like to hear of a dozen ways of getting out of this hole," murmured Mark Sampson.

"Mr. Roebach," said the professor, ignoring the youth, "what do you say? What is your advice?"

"The sun will be up in an hour, or thereabout. It's pretty dim down here. Let us wait and see what daylight shows us," was the oil man's reply.

"The moon—the other moon—is just appearing," Jack said. "We'll have light enough in a

few minutes."

"Two moons! what do you think of that?" cried Mark.

"Are you sure, Jack?" queried the professor,

eagerly.

"I just saw it peeking over the eastern cliffs while Andy was patching me up." He carried one arm in a sling, and his other hand was bandaged.

"Then I must take an observation," ejaculated the professor, and seizing some instruments he had arranged on the table he went out to where the powerful telescope was adjusted.

"He's forgotten all about gittin' out of this

hole in the ice," said Andy. "I, for one, think we'd ought to take axes and begin to cut steps up the wall. How else will we escape from the place?"

"The poor old Snowbird cannot be repaired in

a hurry, that is sure," muttered Mark.

"And this is no place to remain for fun," agreed Jack. "Suppose the walls of the crack should shut together—where would we be?"

"Just about here, for fair!" said Phineas Roebach, grimly, while Washington uttered a most

mournful wail.

"Gollyation! Is we gotter be squeeged ter deaf in disher awful cavernarious hole? Dis is suah a time ob trouble an' tribbilation."

They heard an exclamation from the professor and Jack led the way to the open deck of the crippled flying machine. By chance the Snowbird in landing had remained upright, her decks on a level. They found the professor bending over some further calculations on a great sheet of paper. Here, two hundred feet below the surface of the ice, the heavenly bodies all looked brighter and more distinct than they had while the aeroplane was in flight above the ground.

The strange new planet had not yet gone out of sight. From the east the old moon was soaring steadily. There could be no mistaking the two orbs, now that both were visible in the sky at once. The new planet or moon was much larger than the real moon.

"What do you suppose that great planet is?"

queried Jack.

The professor looked up from his calculations. His face was very pale; his eyes glowed with excitement. The boys had seldom seen the old gentleman so moved.

"You are right, my boy. A planet it surely

is," he said to Jack.

"But why have we never seen it before?" demanded Mark.

"For a very good reason," returned the professor, solemnly. "We were never in a position before to behold that planet, save on two occasions."

"Then we have seen it twice before?" asked

the puzzled Jack.

"On two occasions we have been enabled to stand off, as it were, and look at that planet as though we were inhabitants of another world when we went to the moon, and when we went to Mars."

"What do you mean, Professor?" cried Mark.

"It's the earth!" exclaimed Jack Darrow. "It's the earth! We have left the earth—is that it, Professor?"

The old scientist nodded. Phineas Roebach snorted his disbelief, while Washington White

gave vent to his trouble of mind most characteristically:

"Goodness gracious gollyation! De fat am suah in de fiah now! We'se done los' de earf an' Buttsy an' me will nebber see our happy home no mo'."

"Oh, Professor! how could we have left the earth?" demanded Mark. "See! we are standing upon it now; at least, this glacier is an iceriver of Alaska, and Alaska has not been wiped off the map!"

"But that is exactly what has happened to it," said the professor, earnestly. "At least, a part of Alaska—we do not know how much of that territory, or how much other territory with it—is no longer a part of the sphere called the earth."

Phineas Roebach looked at the old scientist as though he thought the latter had taken leave of his senses. But Jack Darrow leaped to the right conclusion.

"You mean, sir, that the earthquake and the volcanic eruption have torn away some great fragment of the world, and we are on it?"

"That is what I mean."

"We are floating in space, then—an entirely new world? And that is the old world shining there in the sky?"

"That is what has happened, Jack," declared Professor Henderson, with solemnity. "I suspected it when we first felt the lightness of the

atmosphere. I was convinced when I found the ether envelope of this new world—this island in the air, as it were—was so thin. My calculations regarding the rising of the moon, and the outlines of objects upon the great globe hanging yonder, prove to my mind conclusively that the awful cataclysm we endured, when we all completely lost consciousness, was the time when the eruption occurred, and we, with this great fragment of the earth, were blown out into space."

"It can't be! it can't be!" shouted Phineas Roebach. "We've lost our heads, perhaps; but we haven't lost our hold on the earth. It's nonsense!"

"I sincerely wish I could feel that same confidence, Mr. Roebach," said Professor Henderson, drily. "These instruments of mine, however, cannot lie. It is a simple calculation to figure that the moon, now just risen, is thousands of miles out of her course, if we are still on the earth. No, Mr. Roebach, I am stating the exact truth when I say that we have been blown off the earth by that awful volcanic eruption, and that we are now floating on a torn-away world, or a new planet, in space, doubtless hanging between the earth and the sun. We are as unsafe as though we were on a wandering star, or meteor—only this island is not afire. But in time we shall fall into one or the other greater bodies of our system-of that end there can be no possible doubt."

CHAPTER XVII

ON AN ISLAND IN THE AIR

THE stern and uncompromising statement of Professor Henderson relating to the awful fate that had overtaken his friends and Phineas Roebach was so uncompromising—almost brutal—that not a word was spoken for several minutes.

Even Washington White was dumb. The fact that the fragment of the earth on which they were imprisoned was floating miles above the globe, in the rarified atmosphere of the outer universe, and that they were at that moment able to look up and see the great, calm, palely glowing sphere which had been their home, rolling across the arch above them—all this was too awful a mystery to be grasped immediately by the professor's companions.

Jack Darrow, whose mind was the keenest of any, was the first to break the depressing silence. And he spoke in an awed tone that showed how fully he realized the horror of their situation, if nothing more.

"Then, Professor, we are at the mercy of

Chance—at any moment this fragment of the earth may fall again—or be propelled into the sun?"

"We are in the hands of Providence, my boy,"

replied Professor Henderson, reverently.

"The fact remains that we are totally unable to help ourselves," said Jack, firmly. "Even could we repair the *Snowbird*, and get her out of this crack in the ice, we could not fly to the earth. Between us and the earth lies a portion of the universe that has no atmosphere—no breathable air—like that envelope which surrounds the moon. Am I right?"

"Practically correct, I believe, Jack," re-

sponded the aged scientist.

"But," cried Mark, at last getting his speech, "how can such a thing be possible? Blown off the earth! Why, we'd simply go up in the air and come down again."

"Now you're talking sense, young fellow," muttered Roebach, still rubbing his head as though

stunned.

"Not if we were blown far enough to get beyond the earth's attraction—or to get so far away from that body that the sun's attraction counterbalances that of the earth," replied the professor, calmly.

"And why do we not fall off?" asked Mark.

"We do come pretty near falling off," returned

Professor Henderson, grimly. "I should think

you could see that, Mark."

"Our lightness!" Jack cried. "Washington's jumping and the lightness of all objects! I see. This fragment of the earth—this island in the air, as you call it, Professor—is large enough to possess some powers of attraction of its own; but not as much as the earth. I wonder how large it really is?"

"That is a matter for future discovery," returned the scientist, with some eagerness.

"My goodness me!" groaned Mark. "He

really enjoys the situation."

"No man has ever been in such a position before—I am convinced of that," declared the professor. "Were it not that you are all in as perilous a situation as myself, I would not worry about this condition. It is marvelous, and the situation affords me opportunity to learn many things that science has only guessed at before."

"Don't talk that way!" wailed the oil man, suddenly. "You'll make me believe in this island in the air business, and I know it's craziness!"

Nor could anything the professor say convince the oil man that there was any common sense in the plain statement of their situation. It was beyond Phineas Roebach's powers of imagination.

As for Washington White, he could not understand the affair anyway. But he always accepted the professor's words as Bible truth and he had

no doubt of the surprising fact.

"We was bound ter git inter trouble, Buttsy an' me, w'en we agreed ter start on any sech foolish journey. And de consanguinuity ob dis 'casion assuages me ob de fac' dat we'se only got our come-upance fo' bein' so reckless. Now we is nebber gwine ter see de State o' Maine again, 'ceptin' it is froo de perfesser's telescope."

His complaint received little attention from Jack Darrow or Mark Sampson; they were too deeply interested in the explanation of the catas-

trophe that had overtaken them.

"How big a slice of Alaska do you suppose has been blown off the earth, Professor?" asked

Jack.

"It may be much more than a part of Alaska," replied Mr. Henderson. "Until we have a chance to explore the region more thoroughly I cannot even guess the answer to your question."

"And how can we explore it?" demanded Mark, quickly. "If there is no atmosphere on these mountain tops which we see—or, which we saw before we fell into this crevasse—we cannot get off this plane. We are imprisoned on the low ground. The lack of air will keep us from climbing the mountains."

"Or from flying over them if we can get the **Snowbird** into commission again," added Jack.

"Every necessity brings its own invention," said the professor. "Let us not despair. We may yet find some means of traveling all about this floating island."

"And what will you do if you get to the edge-

fall off?" exclaimed Andy.

He likewise accepted the professor's words at their face value. He never thought of doubting either the aged scientist's honesty or his learning.

"If the attraction of this fragment holds good here, it will hold good all over its surface," proclaimed the professor. "We have no means yet of weighing this torn-away world we are on—this new planet. But it must be of considerable size. Otherwise it would not hang here in space as it does."

"And without movement?" cried Jack.

"I believe it is circling the earth as the earth circles the sun. We are practically on a second moon—only the fires in the heart of our young planet are not dead."

"I should say they were not dead, if that geyser Mr. Roebach opened up is any sign of life," re-

marked Mark.

"You are quite right, my boy," said the professor, cheerfully. "The volcanic disturbance brought about great earthquakes. These, however, were merely warning symptoms. We did not know it, however. Finally the great mass of gas formed beneath the earth's crust somewhere about the Alaskan coast of the Arctic Ocean, we will say, exploded and forced an enormous portion of the crust into the air.

"No wonder we lost consciousness," he continued, with enthusiasm. "We were probably traveling faster than human beings ever traveled before. The entire nature of the portion of the earth we stood upon was changing. Our atmosphere was changing. We were shot into the sky and in a flash were beyond the common influence of what we call the law of gravitation."

"But what a hole we must have left in that part of the world!" gasped Jack. "Think of it! The seas must have run right into the chasm and made the bottoms of the old seas dry land."

"Not at all! Not at all!" returned the professor. "Think what a mighty globe the earth is. Remember that there are valleys miles deep—mountains miles high! There are holes in the ocean which have remained unfathomed to this day! The surface of the earth is very, very rough. What keeps the oceans from overflowing the land and filling all those sinks and valleys that are deeper than the ocean bed? Merely the power of attraction which the earth exercises.

"Suppose explorers hurry to the scene of the great earthquake—to the edge of the vast crater which the blowing-out of this portion of the earth

has left. What will they find—a hole filled with the waters of the Arctic Ocean?"

"And why not?" demanded Jack, stoutly.

"Because the evidence of our own eyes assures us that such is not the case," declared the professor, pointing again to the rolling planet they had so strangely left. "The earth is not overbalanced. She still rolls on her proper course, I have no doubt. The breaking away of this island is not a serious matter to the earth as a whole. The contour of the hemispheres is not changed. I showed you how I had traced the outlines of the continent before, even, that I was confident we had been blown off the earth.

"No. Those who explore the region which we have left will find hills and valleys as before—awful crevasses, perhaps, and steaming cauldrons of water and mud. No vegetation, of course, but snow has perhaps fallen on some parts of the raw scar, and those explorers may be able to travel through a region that was—a week ago—the bowels of the earth!

"The foundation rocks of the earth are left raw and exposed, as they may be after some terrific land-slip. But nothing more. We sail here high above the earth—"

"Looks like we were below it now," muttered

Mark.

"But if we have been observed from the earth

—and of course those great telescopes at the Lick Observatory have found us out ere this—we will appear above her," said the professor. "Many things about this strange happening we may only guess at. Of one thing we are sure—we have air to breathe, water to drink, there are wild animals to kill for food, vegetation exists; we are, in fact, upon a miniature world which is not much different from that we have left—as yet, at least."

"All that sounds mighty fine," interrupted Phineas Roebach. "And I expect you believe it all, Professor Henderson. But there's just one thing that I believe: We're down here, two hundred feet or more from the top of this ice wall, and the game, or the vegetation, or anything else, isn't going to help us much while we're here. What I want to know is: How are we going to get out of this crevasse?"

CHAPTER XVIII

IMPRISONED IN THE ICE

THE oil hunter's demand was like a bomb thrown in their midst. The boys had been so deeply interested in the professor's relation of facts, and in the scientific phase of their situation, that the more practical questions of their mere existence on this island in the air had not before held their attention for long.

"We've got to find some way of climbing out, I reckon," Mark said, slowly.

"Well, find it!" snapped Phineas Roebach. "Let's talk of something practical. We'll freeze to death down here very soon, if we don't starve first."

"Very true," said the professor. "Mr. Roebach is eminently practical. We must give our attention to the immediate peril that menaces us."

At this moment Andy came forward with two hatchets and an axe.

"These are the things we want, I guess," he said, quietly. "We've got to chop steps in the wall, and climb up in that way."

"And abandon all our instruments—and the telescope?" exclaimed Professor Henderson.

"And the Snowbird?" added Mark.

"We can hoist all the small things up to the top of this wall—if we can get up there ourselves," said the old hunter.

"Right you are, Mr. Sudds," declared Phineas Roebach, with vigor.

"But the flying machine?" queried Jack. "It seems too bad to let it go."

"We won't let it go, Jack," declared Mark.

"Andy is right, boys," said the professor.

"Let us first make our own escape sure. Then, if it be possible, we will hoist the flying machine as well as the instruments and our remaining provisions out of this chasm."

"I'm afraid we'll never be able to hoist the Snowbird," said Jack, sadly. "I reckon we'll have to say good-bye to it."

"Don't lose heart," repeated Professor Henderson. "Lead the way, Andy. Let us try chipping the ice away."

Cold it indeed was down there in the maw of the ice-field; but Wash made some more hot drink and the hunter and the oil man went at the icewall with vigor. They chipped out good, wide steps, two feet apart, two working together, and mounting upward steadily. The lightness of their bodies aided not a little in the speed at which they worked. Before an hour had passed they were forty feet above the shelf on which the crippled flying machine rested.

By that time the earth had rolled out of sight and the moon itself had paled into insignificance. There was a bright glow in the sky and the party knew that the sun had risen into view. Deep down as they were in the cavity, they soon felt the difference in the temperature. For several days it had been cold on the earth; but now the sun's heat seemed to strike more directly upon the island in the air.

The wall of ice on the other side of the crevasse began to glisten, and soon streams of water were trickling down it, falling with a gentle murmur into the abyss. The workers threw off some of their heavy clothing. The sun's rays began to creep down the other wall, and the ice melted rapidly.

Jack and Mark took the places of Andy Sudds and Mr. Roebach with the hatchets. The ice on this side of the chasm was still cold and brittle, but the sun was mounting very rapidly toward the zenith and the trickling rills upon the opposite wall of the crevasse became torrents.

"We are in serious danger," Professor Henderson warned them. "Since being shot off the world, we have begun a course around our parent planet which brings this portion of the island, at

least, in much closer juxtaposition to the sun than Alaska ever was before. I fear that the heat will become tropical in due season."

"And this whole glacier will melt?" cried

Mark, jumping to that conclusion instantly.

"Not all at once, we will hope," said the professor. "If the length of the day on this island in the air was as long as the earth's day, the sun might melt the ice so rapidly that we would be washed off this wall and drowned in the abyss."

"Gollyation! We's done for den, fo' suah!"

groaned Washington White.

"But the island will doubtless circle the world in such a way that the sun will only strike upon us directly for a few hours at a time—the entire circuit we make around the world may be of considerable duration; but the sun will shine directly upon us—at the rate those rays are traveling down that opposite wall—for only a short time. Do you see?"

The boys had resigned their turn at the chopping and returned to the shelf by now. Again Andy and Mr. Roebach were high above their

heads, clinging to the slippery wall.

For the ice on this side, while it was in the shade still, was becoming moist. The heat of the day was intense. Down the opposite wall of the crevasse tumbled a sheet of water which fairly

hid the ice itself. Occasionally huge blocks of the melting crystal were broken off by the action of the water and fell into the chasm with thunderous crashes. There was good reason for the party being worried over their situation.

The heat increased and over the edge of the wall they sought to climb the water began to pour. Andy Sudds and the oil man were driven down from their perch. The sun appeared, blazing directly down into the crevasse and the melted ice rained in torrents about them, falling upon the Snowbird as though a heavy rainstorm was in progress.

They fled to the roofed cabin to escape this downpour. But they were fearful that at any moment the flying machine, resting so insecurely upon the shelf of ice, would be washed into the depths.

A terrible hour followed. The heat became torrid. The splashing of the water and thunder of huge pieces of ice falling into the crack almost deafened them.

Just as the sun had crossed the narrow are above the crevasse there came a thunderous roar. Used as they had been for some hours to explosions of sound, this one made all tremble. The ice-wall seemed to crack and stagger from base to summit. The flying machine shook as though it were about to take flight. But they all knew.

that the only flight it could take was to the bottom of the abyss.

The thunder of falling ice continued for some minutes. A mighty avalanche had fallen into the depths. But whether it had fallen from their side of the crevasse or from the other, they could not at the moment tell.

The sun was out of sight. Its rays, however, still played upon the wall above their heads, while from the lower part of the gulf there rose a steam, or fog, which wrapped the flying machine around and smothered all in its embrace.

The light disappeared from above. The heat of the torrid sun departed. The chill of the fog bit in like a knife. They were glad in an hour to get into their furs, and there remained shivering in the damp, cold fog, while the streams of water which had poured down the ice-wall congealed again into the hardest of crystal.

Roebach and Andy possessed themselves of two storage battery lamps and went cautiously to examine the wall up which they had climbed for more than a hundred feet.

It was now as smooth as glass!

The wash of the falling water had worn away the ice so that the steps of their ladder had disappeared. The work they had done toward escape had gone for naught.

They were just as much prisoners of the ice

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now as they had been when first the Snowbird had settled upon this ledge in the crevasse. And now they lost hope. There seemed no possibility of their escaping from the gulf by cutting their way out.

CHAPTER XIX

A NIGHT ATTACK

It was the aged scientist who again put heart in the party when Andy Sudds and Phineas Roebach brought back the report of this catastrophe.

"We must not give up hope," declared Professor Henderson, cheerfully. "We have lost what work has been done on the ice-wall, it is true. But we can begin again."

"And of what use will that be?" demanded Mark Sampson. "The sun will melt away the

ladder again."

"We have many more hours of night here than we have of daylight—you can all see that, eh?" said the professor.

"The sun seemed to shine on us not more than

six hours," admitted Jack.

"Less than that, I believe. The rays were not hot more than four and a half hours. If we begin our work of cutting steps the moment the heat of the short day departs, we will be able, I am convinced, to get to the top of the ice cliff."

"You're wrong, Professor," said Roebach.
"This ice is spongy even now—at least, a good

deal of it is. We can't make secure footholds in that wall. We're beaten, I tell you—beaten!"

"No. Only balked in one way. There are other means of escape," declared Professor Henderson.

"I'd be glad to have you tell us what those means are," cried the oil man. "I've racked my brains to think of some other way of getting out. I'm beaten, I tell you!"

"We will not give up so easily," insisted Professor Henderson. "There is no sense in that. We must struggle on. Wait until this fog is dissipated. It will soon rise, for the air is becoming extremely cold and the fog cannot long endure the frost."

They were indeed suffering much from the increasing cold. The change—and so sudden a change—from the tropical heat of the short day to the bitter cold of this ice-gulf was hard to bear.

The fog thinned perceptibly three hours after the sun had set. Meanwhile all but Jack and Washington White had piled up in the cabin for some much-needed sleep. Jack's wounded hand would not let him rest, so he offered to keep watch, while the black man had been reposing most of the time in which Andy and the oil man had dug so strenuously at the cliff.

"Disher proves, Massa Jack, how contrariwise

disher world do go," Wash grunted. "Here we starts out ter hunt fo' dat Dr. Todd's chrysomela bypunktater plant, an' we don't find it, but nothin' but trouble—lashin's ob trouble! I'se nigh erbout descouraged ober de perfesser. He suah do lead us all inter sech tribbilations. I done lose heart 'bout him."

"Oh, I wouldn't," said Jack. "The professor can't help it if an old volcano comes along and blows us off the earth. You can't really blame him for that, Wash."

"Well, now," said the darkey, "if he hadn't taken us so far away from home, it wouldn't have happened. We don't nebber have no earfquakes, nor no volcanoes in Maine. It's against de law, I reckon—like sellin' gin. No, sah! disher awful catastriferous conglomeration ob fortituitous happenings dat's put us where we is right now would nebber hab got at us if we'd minded our own business an' stayed to home. No, sah!"

"There may be some truth in what you say—barring your use of the big words, Wash," admitted Jack Darrow. "But we certainly can't blame the old professor for any freaks of Nature that may happen."

"No. But I hasn't gotter encourage him in disher foolishness ob runnin' up an' down de world, huntin' fo' new t'ings. I don't like new t'ings," declared Wash. "Looked disher now!

Whoeber said Washington White wanted ter transmogrify hissef to a new planet? Nobody, not dat I hears on."

"I reckon we none of us had much choice in the matter," returned Jack, with a sigh.

"Glory! Dar's dat moon again!" cried

Wash, suddenly.

"No; it's the earth in sight," returned his youthful companion. "The mist is being dissipated, just as the professor said. Let's go out and look about."

"We done wanter be mighty careful walkin' on dis ice," admonished the darkey. "It jest as slippery as it kin be."

Which was true enough, as Jack found the moment he stepped down upon the shelf from the flying machine frame. Where the ice had melted and then its surface had congealed again, it was as smooth as a mirror. The reflected light from the huge globe that now began to traverse the small arc of their heaven gave them plenty of light. They could see down into the green depths of the crevasse, but not far along the shelf on which the *Snowbird* rested, in either the one direction or the other.

"Whar you goin', Massa Jack?" demanded Wash, as the boy started away from the flying machine toward the nearest wall of rock that shut in the glacier.

"I want to see what lies beyond that turn," replied the youth. "Perhaps we may learn something to our advantage by exploring a bit."

Washington White followed him very cautiously. Before he came to the turn himself, Jack had rounded it. The next moment the

darkey was startled by a yell from Jack.

"Fo' de goodness gracious gollyation sakes!" bawled Wash. "What done gone an' disturbed de continuity ob your sagastuations? Yo' done frighten me inter a conniption fit if yo' hollers dat way."

Here he rounded the turn himself and almost bumped into Jack. Even the darkey's volubility was stilled at the sight before them.

A great part of the wall of the crevasse—the wall which they had hoped to climb, had broken off and fallen into the gulf. A wide crack, or gully, was opened in this side of the chasm, leading in an easy slope to the surface of the glacier.

Although their attempt to reach the surface had been foiled, here was a way which the sun, melting the ice and causing a great avalanche, had made for them. It was plain that all could easily mount to the top by this sloping gulch.

Jack dashed back to announce the discovery and Wash came after him, intent upon seeing that Buttsy was carried, in his well wrapped-up coop, out of the crevasse. The youth awoke his friends instantly and in ten minutes all had taken a look at the way of escape and preparations were at once made for departure from the flying machine.

Everybody save the professor was laden with stores or instruments, or extra clothing and blankets, as they filed away from the crippled Snowbird. The two youthful inventors and builders of the flying machine bade good-bye to her with full hearts. It was not a certainty that they could recover the flying machine, and Jack and Mark felt pretty bad about it.

The first thought of all, however, was centered in standing once more upon the surface of the glacier. The fact that the upper part of the ice field might move at any time, and the crevasse be closed while they were held in it, had troubled them all.

In half an hour, however, all that danger was past. Other perils might immediately face them; but the chance of being snapped between the jaws of ice was no more to be feared.

The golden ball of the earth, around which the island in the air was following its orbit, gave them plenty of light as yet, for the sun was still in such a position that its light was reflected from the earth upon the fast-traveling island in the sky.

The party, shaking with cold now, for the

night was really arctic in temperature, made for the nearest morainial deposit where trees grew, under the shelter of the cliff which rose so high above the face of the glacier. As the river of ice had pushed its way downward during the past ages, it had scraped earth and stones from the walls of its bed, and this deposit, falling on the ice, had given root to trees and shrubs, while grass had sprung up and birds had doubtless nested there.

"They are like the oases in the desert," Mark said.

"They will afford us shelter and firewood,"

the professor added.

And in short order they were encamped in a clump of fir trees with a huge fire of dry branches burning before them, its warmth diffused over the whole party.

This grove of sturdy trees was backed close against the base of the cliff, and the rocky wall was sheer, mounting at least eight hundred feet

above their heads.

"I suppose no life could exist higher than this cliff, eh, Professor?" Jack Darrow asked, as they became comfortable in the fire's warmth and threw back their fur wraps.

"I am not sure of that, Jack," returned the scientist. "From our experience in the Snowbird, since the eruption that threw us off into space,

and while on the higher levels of air, we cannot doubt that at a thousand feet above this ice, at least, animal life would become extinct."

"I reckon there isn't much animal life left in these parts now, at any rate," Andy Sudds said. "I don't see what we're going to do if something doesn't turn up for food. We're going to be on short commons."

Wash had set his "bird cage," as the oil man called the Shanghai's coop, within the warmth of the fire, and the rooster evidently felt the grateful glow of the flames. He had been picking up some corn that Wash flung him, grain by grain. Now he suddenly stopped, raised his head, and uttered a loud and apparently frightened squawk.

"What dat?" demanded the darkey, his eyes rolling. "Buttsy hear sumpin'—he suah do."

"What do you reckon he hears?" queried

Jack, idly.

"I dunno dat. But he's some disturbed—yo' kin see it's so," returned Washington, nervously. "Does yo' hear anything yit?"

"You think he can smell out an enemy, do

you?" chuckled Jack.

"He done gotter great head, Buttsy has," declared the black man. "If dere is anyting prowlin' aroun' permiscuous like, he's de boy to hear 'em—yes, sah!" "By the same token it was a flock of geese that saved Rome," Mark said.

Wash had his back to the thick clump of firs. Jack was facing him. Suddenly the boy, raising his eyes to look across the fire at the darkey, beheld a huge black object rise out of the brush directly in Washington's rear.

One glance told Jack what the creature was. There was no mistaking the gleaming eyes, the pointed, slobbering muzzle, and the hairy, yellowish breast of the gigantic Kadiak bear as it poised its huge body over the unconscious darkey.

Like a ghost the bear had crept to the camp of the explorers and was now on the eve of an attack, totally unheralded!

CHAPTER XX

THE HEROISM OF THE SHANGHAI ROOSTER

JACK DARROW was the only person in the group around the campfire who at first saw the huge bear. And he was so startled that for a breath he did not know what it was best to do. To shriek out in alarm would neither save the darkey nor frighten off the bear.

The Shanghai rooster settled down with a halfstifled squawk in the bottom of his coop. Without doubt the bird saw the bear and realized that his life was in peril.

"What de matter wid yo'?" demanded Washington, rolling his eyes and beginning to look scared himself.

Jack's mouth was dry and he had to wet his lips before he could as much as whisper. Only a few seconds had elapsed since the bear rose into view behind the darkey; but it seemed to Jack as though an eternity had passed.

His whispered words were for the old hunter, whom he knew was always alert.

"Andy! Your rifle!"

The brown claw of the old hunter was never

far from the grip of his gun when he lay before a campfire. Jack saw the hand clamp upon the weapon even before Sudds rolled over.

"What's up, Jack?" he whispered.

"Behind Wash-quick!"

No need to tell the hunter to be quick. He was on his knees and the gun was at his shoulder in the twinkling of an eye.

"Come here, Wash—quick!" ejaculated Jack, with sudden inspiration, and the darkey, used to obeying orders without question, scrambled up and started toward the boy.

With a roar that brought every other person save the old hunter to his feet, the huge bear swung both front paws to grab the negro. Wash escaped the embrace by the breadth of a hair.

Bang! spoke Andy Sudds' rifle.

"Gollyation! I'se done shot!" bawled the darkey, and sprang into Jack's arms.

The boy hung on to him or perhaps Wash would still be running, he was so scared. Nor were the other members of the party much less startled.

But Andy Sudds was as steady as a rock. His first ball had hit the huge beast in the breast, but the latter had plunged forward after the escaping darkey as the ball struck him. Therefore the wound was too high up to do serious damage.

A grizzly, or Kadiak, bear has never yet been

settled by a single shot—unless the bullet entering the beast's carcass was explosive. With a mighty roar the bear plunged forward, right through the fire, scattering it far and wide and aiming directly for the place from which the rifle ball had come. It had stung him, and he was after the old hunter on the instant.

He half fell over the coop which contained the Shanghai rooster. Irritable as he could be, the bear delayed long enough to strike at this coop. He smashed one end of it flat, but the Shanghai miraculously escaped injury.

The bird had undoubtedly been disturbed and frightened by the secret approach of Bruin; but once free, the feathered creature felt his dignity disturbed, and finding himself free of the coop, he flew with a loud squawk at the charging bear.

Andy had pumped two more bullets after his first one. Both had found their billet in the body of the bear; but neither had struck a vital spot. The scattering fire, as the beast plowed through the embers, drove the rest of the party out of range in a hurry. Jack dragged Wash to one side; but the darkey yelled:

"Gollyation! I wanter save Buttsy! Oh, lawsy-massy! Dat Shanghai suahly is a reckless bird!"

In the flaring light of the flames the rooster was seen to pounce upon the shoulders of the

huge bear as the latter came down to "all-fours" and dived at the old hunter. Andy sprang back, collided with a tree-trunk, and went head over heels. In an instant the bear would have been upon him and one stroke of his sabre-like claws would have finished Andy Sudds.

But the rooster certainly did delay the bear's charge. The brute struck at his feathered tormentor with first one fore paw, and then the other. He failed to dislodge his enemy by such

means.

And then a big ember behind him snapped and a part of the flaming branch fell upon the ground just where Bruin put his hind paw upon it. Plowing through the blaze in a hurry was one thing—this was an entirely different proposition.

Bruin uttered a roar of pain and turned to bite at the stung paw. As he swung his huge body about, the blood now spouting from his jaws—for one of the bullets had punctured a lung—Andy came into position again, with the muzzle of his rifle less than ten feet from the hairy side.

Bang!

An answering roar of rage and pain followed the shot. The beast tried to whirl again, but fell instead. The rooster fled, squawking, into the bush.

The huge bear struggled on the ground for some moments before anybody dared approach.

It was Wash who first dashed in and planted a foot upon the dead beast's neck.

"See wot dat Shanghai done?" he cried.
"Wot you gotter say now ter Christopher Columbus Amerigo Vespucci George Washington Abraham Lincoln Ulysses Grant Garibaldi Thomas Edison Guglielmo Marconi Butts?"

"I got to take off my hat to the rooster," Andy Sudds said, quietly. "If it hadn't been for him that bear would have had me as sure as

shootin'!"

"Butts is a hero—no doubt of that," gasped Jack Darrow, when he could get his breath.

The others—even Professor Henderson—were greatly excited by the incident and delighted by its outcome. Here was fresh meat in abundance, to say nothing of a fine blanket-robe, if they could take the time to stretch and "work" the hide. Andy promised to do that the next day if they would camp where they were long enough.

Meanwhile the bear was skinned and certain steaks cut off for immediate consumption, while the bulk of the carcass was cached under some blocks of ice on the glacier. Andy was for smoking some strips of meat over the rebuilt fire.

"You see, Professor, it's so hot in the daytime here, and so cold at night, that pemmican is about the only kind of meat that will keep—unless it's canned. We'll eat what we can of the fresh bear steaks; but these strips will be all right smoked a long time after the fresh meat has become too strong for anything but a buzzard," quoth the hunter.

CHAPTER XXI

MARK ON GUARD

AFTER the hearty supper, and the excitement of the bear-killing, they were all more or less ready for bed. The professor figured that the sun would not appear again to the Crusoes on this island in the air for quite fourteen hours. They all ought to get sufficient sleep before that time. The havoc wrought by the rays of the torrid sun upon the glacier had been apparent as they came over it to this fringe of trees at the base of the cliff. It might be necessary for them to move quickly from the ice to save their lives.

"We can afford to spend some hours in rest, and will start with bodies refreshed, at least. Now we will divide the watches," suggested the scientist.

But the others would not hear of the professor going on guard. Andy declared for the first watch, for he had to 'tend his "jerked" bear meat. And following him the die fell to Mark. The old hunter awoke the youth some four hours after the camp had become quiet for the night.

The earth was then hanging low on their hori-

zon, while the moon was climbing up from the east, the reflected light of both orbs flooding the surface of the ice-field.

Mark came out of his warm nest yawning like a good fellow, and the old hunter said to him:

"Take that axe yonder and cut some wood for the fire. Keep up a good blaze and that will keep us comfortable as well as keep you awake. I don't want you to go to sleep, Mark."

"Who's going to sleep?" cried Mark, much

abused.

But he had to confess to himself that he was mighty drowsy when he had finished cutting up the wood a little way from the camp. He took a turn or two, replenished the fire, and then backed up against a sheltering tree-bole and blinked at the dancing flames.

Sleep overtakes one suddenly and strangely at times. Without intending to even close one eye, Mark was off into dreamland with a promptness that was surprising. He settled back against the

tree and slept standing up.

But his neglected duty troubled his subconscious mind. He was uneasy. In his dreams he was troubled by nameless dread. He awoke at last seemingly with a scream of human agony in his ears.

Had something happened to his comrades during his brief defection? Mark sprang erect and looked over the sleeping camp. Every person was in his place, but the fire was low. It had been, perhaps, an imagined sound that aroused him so suddenly.

He threw more wood on the fire and stepped out upon the ice to get more of the fuel he had previously cut into handy lengths. This morainial deposit which offered rootage for the trees and bushes was but a narrow streak—a sort of an island on the glacier. They had carried the bear meat out to a small sink in the ice where there were great slabs of the hard crystal which were easily packed over the meat. As Mark started for the wood he heard a noise out on the ice in the direction of their cache. He picked up his rifle again quickly and started for the spot. Something was disturbing the meat, and Mark did not lack courage. His rifle was loaded and, thanks to Andy, he was a good shot. The old hunter took pride in training the boys to shoot well.

The youth did not stop to ask what manner of enemy it was disturbing their cache. And it never entered his head to disturb the camp. He ran right out upon the glacier and had advanced to within a few yards of the spot before he learned what he was up against, for a huge block of ice hid the cache from his view.

Around this ice-block, from either side, as

though they had been waiting purposely to ambuscade him, shot several animals, who charged him without as much as a whine.

"Dogs!" thought Mark, remembering the Alaskans that Phineas Roebach had been forced

to abandon. "They have gone mad."

But the next moment he saw his mistake. They were wolves—huge, gaunt, shaggy fellows, with gaping jaws displaying rows of ferocious teeth. They charged him in awful silence, their great claws scratching over the ice.

There were eight or ten of them in sight and they were only a few yards away from the youth when he first saw them. But instantly Mark dropped to one knee to steady himself, put the

rifle to his shoulder, and opened fire.

Four shots he placed in quick succession. Two of the wolves rolled over and over upon the ice, and a third limped off after the remainder, who darted behind the ice-block again. Mark leaped up, uttering a shout of triumph, and followed them, believing that he had beaten the pack thus easily.

But the moment he came around the obstruction he found himself in the midst of the actual pack. He was not charged by a dozen of the fierce creatures, but by more than half a hundred.

The wolves had raided the cache already, having torn away the blocks of ice, and were feasting on the half-frozen bear meat. Mark did not think at that moment of driving them away, however; he wanted to get away himself.

His shots had aroused the camp, although he was some distance from it. But when his friends ran out upon the ice they did not see him, and nobody for the minute suspected what had happened or where the youth had gone. The two bodies of the wolves were not at first sighted.

Mark did not have a chance to use his rifle again. The wolves seemed to rush him from all sides, and a huge gray fellow leaped against him, knocking the rifle from the lad's grasp and rolling him over and over, half stunned, upon the ice.

By marvelous good fortune none of the savage beasts followed him for the moment. The wounded wolf took up their attention. They pitched upon him and before Mark could rise to his feet the savage brutes had torn their wounded comrade limb from limb.

The ice was stained crimson and their slobbering jaws ran blood. A more terrifying sight the youth had seldom seen. He could not reach his rifle, and the bulk of the pack was between him and the way he had come. He therefore leaped away in the other direction, running from instead of toward his friends.

He passed through the thinning pack without being touched, although several of the beasts snapped at him and the clashing of their fangs sent cold chills up and down his spine. Then he leaped away at top speed across the ice.

It was a natural move, but a very unwise one. The wolves tore their comrade to pieces and bolted the pieces in about sixty seconds. Then they wheeled en masse and shot off across the glacier after the boy.

Mark ran about as fast as he had ever run before. Fortunately he had spurs in his bootsoles and therefore he did not slip on the ice. But suddenly he found that he was crossing a smooth sheet of new ice—the surface of a lake in the glacier. This lake had frozen after the sun went down and Mark felt the new ice bend under him as he ran.

The moonlight revealed his path before him plainly; but the now yapping pack behind took up so much of his attention that Mark did not take a careful view of the surface of the thinly frozen lake.

The leaders were all but upon him in a very few moments. As the first wolf leaped, Mark threw himself sideways and ran off at a tangent, holding his feet much better than did the brutes. They went scratching along the smooth ice for some yards before they could change their course.

The turn, however, put Mark in a serious po-

sition. He found the thin ice cracking loudly under his feet. He glanced ahead. There was a streak of open water.

He tried to turn again, but this time his spurs slipped. He went down on the ice. The first two wolves were a-top of him and one seized his arm. But luckily it was protected by his thick coat sleeve.

Then the wolves darted back from the prone, sliding body of the boy. They saw their peril; Mark could not help himself.

With a shriek and splash he was struggling in the deadly cold water of the lake. He plunged beneath the black surface while the yapping pack halted upon the very verge of the broken ice.

CHAPTER XXII

THE WOLF TRAIL

THE hole into which Mark fell was not many yards across; but when he came to the surface of the icy water he found that the edge of the strong ice was fringed with open jaws and lolling, blood-red tongues. The wolves had surrounded the open bit of water and were prepared to welcome him with wide jaws wherever he sought to climb out.

The lad knew well enough that he was helpless against these foes. To seek to reach the ice would be to give himself up to the savage brutes. Nor could he remain long afloat in this ice-cold water. He was already chilled to his very marrow.

Mark was in a perilous position indeed. He could bear up but a few moments. He knew that if he again sank beneath the surface he

would never rise again.

And so he struggled mightily to keep his head above water. The wolves did not dare leap in to seize him; they did not have to. In their canine minds they probably knew that the boy would have to come to them.

But fortunately for Mark the wolves had given tongue when they chased him over the ice. Otherwise the boy's friends might not have been warned of his predicament until too late to be of assistance to him.

But the moment the wolves gave tongue Andy Sudds had started with a whoop for the cache of bear meat. Jack and Phineas Roebach followed with their weapons.

Coming in sight of the slavering pack, as they whined about the open water-hole in the lake, Andy advised his companions as to the situation and they deployed so as to shoot into the pack of wolves without sending their bullets in the direction of the half-drowned Mark.

All using magazine rifles, they were enabled to send such a fusillade into the wolves that the pack was scattered in a few moments. Then they ran on to the edge of the broken ice, finding at least a dozen dead brutes lying about the water-hole.

Jack lay down and reached his gun barrel out to his chum and by its aid Mark got to the edge of the ice and scrambled out of the water. They ran him back to the campfire in short order and then Andy set out to make a second attack upon the wolves, the pack having returned to eat up their comrades.

However, the beasts had already been punished enough. They could not stand before the

old hunter, and ran howling down the glacier.

"One thing about it," Andy Sudds said, "we can make up our minds there is an outlet from this field of ice in that direction. To escape we have only to follow the wolf trail."

They were not in shape to travel at once, however. Jack's hand pained him frightfully after his work in helping Mark escape from the water, and Mark, himself had a serious chill before sunrise. Treated by the professor, however, the youth quickly recovered from his plunge into the lake.

But it was decided, nevertheless, to wait over another of the short, torrid days before leaving the trees, for the traveling by night would be much more practicable. So they were leisurely eating another meal of bear steak when the sun touched the horizon with rosy light.

The dawn broke in what Jack termed "record time," and Washington White gave vent to his surprise in characteristic language:

"I done seed de sun rise in eb'ry clime, f'om de Arctic t'rough de tropical to the Antarctic kentries. But de speed wid w'ich disher sun pops up is enough ter tear de bastin 't'reads loose from de Universe—it suah is! I finds mahself," continued Wash, reflectively, "circumnavigatin' ma mind to de eend dat disher 'sperience we is all goin' t'rough is a hallucination ob de brain. In

odder words, we is all climbin' trees an' makin' a noise like de nuts wot grows dere. Do you hear me?"

"We hear you," said Jack. "And if you think you're crazy, all right. I don't feel like joining you in the foolish factory yet awhile."

"I more than half believe the darkey's right," muttered Phineas Roebach. "This experience is enough to turn the brain of any man. I don't myself believe half the things we are seeing."

The heat of the sun, as soon as it had well risen, was a fact that could scarcely be doubted, however. They were glad to seek the shade of the fir trees, and the surface of the glacier began to melt with a rapidity that not only surprised, but startled them.

A flood of water, like a great river, began to sweep by the narrow bit of earth on which they were encamped. The roar of the falling water into the crevasse from which they had so fortunately escaped soon became deafening.

They all had to remove their outer garments. The smell of the heated fir branches was like the odor of a forest on a hot August afternoon. Professor Henderson watched the melting of the ice with a serious face. When Mark asked him what he thought threatened their safety, the old scientist replied:

"I am serious, that is true, my boy. I see in

this terrible heat the threat of a great and sudden change in this glacier. We must start as soon as the freeze comes on to-night, and travel as fast as we can toward the far end. Mr. Roebach knows the trail, I believe?"

"I've been over it several times; but I must say that the glacier has sunk a whole lot since I was across it before," the oil man declared.

"We can follow the wolves," said Andy Sudds,

stoutly. "They knew their way out."

"That is true, we will hope," Professor Henderson said. "For I must state that I believe our peril is very great."

"How so, sir?" Jack queried.

"We do not know how soon this glacier may move on."

"Another earthquake?" cried Mark.

"Oh, gollyation! I suttenly hopes not," wailed Wash.

"No. I do not think we need apprehend any further seismic disturbance. Such gaseous trouble as there is in the heart of this island will find escape—if I do not mistake—through Mr. Roebach's oil well."

"Then what is troubling you, sir?" queried the boys in chorus.

"The knowledge I possess of the nature of glaciers leads me to fear this peril," replied the aged scientist. "Under the immediate condi-

tions this vast river of ice may move forward at any moment."

"Impossible, I tell you!" interrupted Phineas Roebach. "I tell you this is a 'dead' glacier. It has not been in motion for ages. I have seen the face of it at the lower end of this valley. There is only a small stream of water trickling from under it, and the forest has grown right up to the base of the ice wall."

"And how big a stream do you suppose is flowing from beneath the glacier now, and working its way toward what was once the Arctic Ocean—or Beaufort Sea?" queried the professor.

" Why—why——"

"Exactly," concluded Mr. Henderson, sharply. "You had not thought of that. You see this vast amount of water pouring into yonder crevasse? Water cannot run up hill. It is bound to seek a lower level. It must force its way down the valley, beneath the glacier, and so stream out from beneath the ice at the far end.

"Gradually this flow of water is going to wear away the ice—is going to loosen the entire glacier. And then, suddenly, with no warning at all, the field will plunge forward—break up sink, grind itself to powder against these cliffs? And where will we be?"

"My goodness gracious gollyation!" cried

Washington White. "I wants to git out o' disher right away-me an' Buttsy is ready ter go ter onct, an' no mistake!"

"What will you do-swim?" queried Jack, pointing to the river that was now washing the shore of the strip of soil on which they stooda river which seemed to stretch the entire breadth

of the glacier.

Jack and Mark were deeply impressed by the good sense of the professor's observations; and both Andy and Roebach were disturbed. They watched the disintegration of the ice with considerable worriment. It seemed to melt away much quicker during these hours of sunshine than it had on the previous occasion when the orb of day shone fully upon the surface of the island in the air.

The soil they had camped upon began to crumble away, too, for the heat was insidiously melting the ice under the morainial deposit. At the time which should be high noon-when the sun was directly overhead in its course-one end of the patch of soil, forest and all, slumped into the water with a loud crash, and at once the fierce current tore the rubbish apart and carried it onward to the brink of the crevasse, into the maw of which it fell.

"Wash is perfectly right in his statement," Jack Darrow said. "This is no place for any

of us. As soon as the ice freezes up after the sun sets we must travel as fast as we can after the wolves."

"And I wish we could travel as fast as they can," muttered Andy Sudds.

"I wish we had Mr. Roebach's dogs and sleds," said Mark.

"All right. As long as you're wishing, though, why not wish for the right thing?" demanded Jack.

"And what is that, Master Jack?" asked the

oil man.

"Wish we were aboard the Snowbird and that she was all right. That's what I wish."

"And I reckon the boy's right," said Phineas Roebach, with a sigh. "As much as I object to flying through the air, an airship now would be a God-send indeed."

What bear meat the wolves had not destroyed the water now washed away. The party had only that which Andy had smoked over the fire. But this was easily carried and their packs were not heavy when they prepared to leave the camp as soon after sunset as the frost would allow.

The terrific change from the heat of midsummer to the cold of midwinter, and all within something near twenty-four hours, was hard indeed to bear. The professor calculated that the drop in temperature from high noon was,

two hours after sunset, exactly seventy degrees Fahrenheit.

"Human life will become extinct upon this fragmentary planet, if nothing further happens to it, in a very few years," he said, thoughtfully. "We are not attuned to such frightful changes."

They had eaten, and had packed their supplies. The earth had long since appeared again and the radiance she reflected fell softly upon the ice-field. It glistened like silver, stretching miles and miles away before them when they climbed down from the fringe of trees in which they had encamped, and set out down the glacier.

They traveled carefully at first, for there were sinks in the ice which had barely skimmed over since sun-down. The thermometer registered 18 above zero, however, and the biting cold was congealing all lakes and pools very rapidly. Where they tramped through the slush their footprints froze behind them. In an hour the mercury had fallen ten degrees more and they were beating their gloved hands across their breasts to keep up the circulation.

They tramped on at good speed for several hours. Here and there along either edge of the glacier, were groves of fir trees like the one they had encamped in. But in places the ice had melted from under and around these patches of rock and soil and the roots of the trees were ex-

posed, while the earth had slumped away in small land-slips until nothing but a heap of debris was left.

The old professor grew weary and Andy insisted upon making camp again and resting. While they were warming themselves over the fire the old hunter built, and Wash was boiling some coffee, Jack suddenly beheld several shining points of light in the little wood on the edge of which they had halted.

"Look out! We're being watched," he whispered in Andy's ear.

The hunter grabbed his rifle and looked where Jack pointed. At once he seemed relieved.

"The wolves," he said. "They know their way out of this valley. I don't want to travel on this ice any longer than I can help."

With a word to the professor, and taking Roebach with him, the old hunter made a determined charge into the brush at the lurking wolves. The pack scattered at first, but finding themselves determinedly followed, and both hunters having been wise enough to take torches with them (for wolves are very much afraid of fire) the pack finally gathered once more and trailed away up a narrow path upon the rocky wall close at hand.

In the white light furnished by the earth-planet Andy counted thirty and more of the beasts climbing this rugged path. He was sure it was no mere lair they went to among the rocks, but a path leading out of the valley altogether. Therefore, when the party was again refreshed, they took up their line of march, in single file, following the wolf trail.

CHAPTER XXIII

THE FIGHT AT ALEUKAN

PHINEAS ROEBACH knew nothing about this narrow defile through which the party traveled. But he agreed that they were breaking through the wall of the glacier on the right side. Aleukan, the big native settlement, was in this direction.

There seemed to be a narrow crack through this cliff which had guarded the river of ice. It had never been used by man as a right of way, but the beasts of the wilderness had used it from time immemorial, as the marks along the way proclaimed.

The scurrying feet of the wolf pack were long since out of the way. But yonder a mountain sheep had been killed by a puma, or other big feline, and the wolves had picked its bones after the Master of the Chase had eaten his fill.

Where a little rill of sweet water sprang from between two boulders, boiling out white sand from the depths of its spring, was the print of a bear's paw. Many of these marks Jack and Mark saw for themselves; but Andy was quick to point them out as he led the way up the steep path. Their progress was necessarily slow because of the aged professor. Although the scientist was not the man to retard the party, Andy would let nobody take the lead but himself, so that he could watch the old man's flagging steps and call a halt whenever he thought it best for Mr. Henderson to rest.

"You are babying me, Andy!" ejaculated the

professor, with some irritation.

"You're the most important person in this party, sir," declared the hunter. "We can lose any other person and not miss him much. But

without you we'd be without a head."

Therefore, when they had clambered through the last steep cut and reached the farther slope of the cliff, the hunter called a halt and built a camp, determined to bivouac here although the oil man assured him that they were now less than twenty miles from Aleukan.

A few hours later they awoke to find the sun rising once more and the heat of the exposed hillside becoming unbearable. Were it not for the wonderful clearness of the air they could not have stood the heat at all. But all agreed that they would better descend the hill to the forest and so be sheltered from the direct rays of the sun.

The bearing of their extra clothing in this tropical heat was an effort, and they were all

glad to find shelter beneath the huge-limbed trees at the foot of the slope.

There they lay in the shade and discussed the direction they should travel from this point. was not until this time they discovered that their pocket compasses pointed the north as being in a totally different direction from what they had supposed. Phineas Roebach had declared the native settlement of Aleukan to be directly north and west of the place where he had tapped the mud-spouter. But now, although he was positive of the contour of the hills and the line of peaks of the Endicott Range under which Aleukan was established, their compasses made the direction southwest.

"Not at all strange, sir," said Professor Hen-"In becoming detached from the old earth, our new planet was shifted a good bit, and that which was to the north is now almost west. If, by chance, this island in the air includes that point on the earth's surface which once represented the most northerly spot—the North Pole, in fact—it is the North Pole no longer. The magnetic needle points instead to a new North Pole, established on this fragment of a planet since it was shot off into space from its parent world."

Phineas Roebach grunted his disbelief in all this. He could not get it into his head that they were riding on a piece of the old earth far, far above that stable planet. He would not believe it. No marvel of this situation could change his belief. He would not accept the professor's theory of what had happened to them.

The sun went down again and the frost began to creep after it. Already the bulk of vegetation about them (save the hardy firs and kindred trees and shrubs) were black and dead. The change in climate had tolled the knell of all those plants that had withstood heretofore the rigors of the Alaskan summer.

"What do you suppose has happened to the chrysothele-Byzantium herb that Dr. Todd sent us for?" demanded Jack Darrow. "Seems to me that will be badly frost-bitten by the time we find it; won't it?"

"I fear so, indeed," admitted Professor Henderson.

"Lawsy-massy!" gasped Wash. "Do yo' mean ter tell me dat we ain't gwine ter fin' dat chrysomela bypunktater plant after all? What fo' did we come away off here on dis floatin' islan' if we ain't gwine ter git dat specimen of botanical horrorforbilicalness? I done hoped I could tell ma friends w'en I returned dat we done was successful, an' cure some ob dem ob craziness in de haid by applyin' some ob de bypunktater. If we don't find it, den dey all say we been follerin'

a chimera-infantum—in odder words, dat we needs some ob de bypunktater our own selfs!"

"You mean," said Jack, seriously, "that they will think we are crazy if we do not bring home what we were sent for?"

"Dat's wot I done said," grumbled the colored man.

"No, you didn't say it; but you meant it, most likely," admitted Jack. "And I reckon you are right. It does seem as though we have come a long way for nothing."

"And no likelihood of our ever getting back!"

added Mark, despondently.

But this was out of the professor's hearing. The party was already on their way again, and the traveling was much easier now. Andy and Roebach led the way, followed by the professor and the boys, Wash, with his rooster in a fur bag, following on behind. They covered the twenty miles to the hilltop which overlooked Aleukan without making more than one short stop. By that time both the earth and her largest satellite, the moon, were shining brightly upon this little planet on which our friends had become marooned.

"Hurrah!" cried Jack. "We are somewhere at last! Do you suppose those supplies got over from Coldfoot before that last eruption?" "If the train did not arrive before that time," said Mark, "make up your mind that it never will arrive. Probably there is no Coldfoot on this planet."

"There are some natives on hand, at least,"

said the professor, with satisfaction.

They indeed saw several men moving about the town; but Phineas Roebach did not seem at all pleased.

"I don't like that a bit," he declared.

"Don't like what?" asked Andy Sudds,

quickly.

"There's always a slather of squaws and children around Aleukan. There are two white traders here, too—one representing the Hudson Bay Company and the other working for the French Company. And always a heap of dogs are in sight."

"What do you suppose is the matter?" Jack

queried.

"Don't know," grunted the oil man. "Looks as though the squaws and young ones had been sent off with the sleds. Why, those fellows are all armed, too!"

"I expect that the strange happenings have puzzled and frightened the aborigines," suggested Professor Henderson. "We had better go down into the town and try to allay their fears."

The hunter and Roebach evidently had their

doubts regarding the wisdom of this move. Yet they had come all this distance for the express purpose of going into Aleukan. They set out down the trail to enter the big village of cabins and skin huts.

Suddenly the group of bucks in the principal street of the town turned and ran shouting toward the little party descending from the heights. Their actions were extremely warlike.

Then up from a side gulch appeared twice as many other Indians, armed with spears and guns. Several shots were fired at the party approaching the town.

"Lawsy-massy!" yelled Washington White.
"Disher don't seem like de us'al 'Welcome to our City' warcry. Dem fellers don't want us nohow!"

"Now we see just how popular we are with the natives of Alaska," said Jack. "What do you think of it, Mark?"

"I think we're in bad," returned his chum, gripping his rifle nervously.

"Quite remarkable! quite remarkable!" re-

peated Professor Henderson.

"Back to that bunch o' rocks!" shouted Andy Sudds, who had taken in the strategic advantages of a position they had just passed, at a glance.

All saw the wisdom of the old hunter's suggestion. They hurried to the group of boulders.

They made a natural breastwork behind which a few determined men could hold at bay a horde of enemies—for a time, at least.

"The Indians are coming right on," cried

Mark, excitedly.

"And I see some of my old workmen among them," declared Phineas Roebach. "That is what is the trouble. Those fellows have got it into their heads that we are somehow the cause of these misfortunes that have overtaken this part of the hemisphere."

"You go out and parley with them, Mr. Roe-

bach," suggested the professor.

"You can't parley with them while their 'mad' is up," said the oil man. "They're charging. Give them a volley—and don't be afraid to shoot low. They will listen better to reason after they taste some of our lead."

His final words were lost in the explosion of the guns. All but the professor fired. He had no weapon. Several Indians fell, wounded in the legs, for all had taken Roebach's advice and fired low.

With shrieks of rage and pain the Aleuts fell back, and found shelter for themselves behind trees and rocks. But they were not minded to give up the fight so easily. They gradually extended their line of battle until they had our friends completely surrounded.

Their desultory fire, however, did not at first do any damage to those in the fortress, and the whites replied only occasionally, taking careful aim and winging an Indian at almost every shot.

CHAPTER XXIV

THE FLIGHT TOWARD THE COAST

WASHINGTON WHITE was a good shot, but he did not like fighting. And he was particularly careful not to show himself above the breastwork of boulders behind which he, with his companions, were crouching, holding the Aleuts at bay.

"Disher ain't no place for a 'spectable pusson ob color," he muttered. "Wot do Buttsy an' me want o' shootin'? Wah! Dat bullet chipped de rock right near ma haid! Ain't dat Injun got

no respec' for who I is?"

"I don't believe he knows who you really are, Wash," chuckled Jack, whose wounded hand was now so much better that it did not keep him from handling his rifle in a way to make old Andy proud of his pupil's marksmanship.

"Can dat be a posserbility?" demanded Wash, vainly. "Ain't dey nebber hearn tell ob me,

d'yo s'pose, Massa Jack?"

"I believe they are quite ignorant of who you

are," returned Jack, with gravity.

"But some ob 'em done seed me ober dar at Massa Roebach's camp. Yas, sah! I reckernize one o' dem Injuns—de short feller behin' dat tree close up yere. Gollyation! he jest fired dat shot dat come purt nigh hittin' Buttsy."

"He's trying to kill that Shanghai, Wash," said Jack, wickedly. "That's what he's trying

to do."

"Dat settles it!" ejaculated the colored man, mighty wroth at this thought. "I ain't goin' ter stan' no sech doin's. Tryin' ter shoot Buttsy; is he? I'll show him in jest erbout a minute dat nobody kin shoot at ma Shanghai wid imputation an' git erway wid it—no sah!"

The boys had no idea that he would do so reckless a thing. Wash was not ordinarily a courageous person. But he was "riled all up" now, and he feared for the Shanghai's safety.

Up he jumped, threw down his rifle, and agilely leaped the fortification in the direction of the short Indian who had attracted his anger. He streaked it across the intervening space so quickly that the startled enemy did not even fire at him.

But Andy Sudds began firing his magazine rifle as fast as he could sight her and pull the trigger, and Roebach followed his example. This volley drove all the Indians to cover and doubtless saved the strangely reckless negro's life.

Wash reached the cover of the Aleut accused by him of aiming directly to finish the Shanghai rooster, and before that startled aborigine could escape, he was disarmed by the black man and dragged across the intervening space to the fort.

Wash was powerful and could easily do this, for the Indian was not a heavy fellow. But on the way one Indian had fired at the darkey and

wounded the Aleut in the leg.

"Lemme tell yo'," roared Wash, "I ain't gwine to hab no off-color critter like disher try ter combobberate ma Shanghai. Dat is ma final ratification ob de pre-eminent fac's. Does you understand me?"

"We most certainly do, Wash!" declared Jack, when he could speak for laughing. "And we'll never call you a coward again."

"You have given us a hostage," said the pro-

fessor. "You have done well."

Wash strutted and preened himself over this praise until another bullet sang over his head. Then he dropped down flat on the ground and groaned:

"Golly! dat bullet said—jes' as plain as day— 'Whar is dat coon?' D'youse 'speck dat it

meant me?"

Meanwhile Phineas Roebach had taken the wounded Aleut in hand. He not only extracted the bullet and bound up the wound, but he made the fellow explain the situation in Aleukan and tell why the Indians had attacked the white men.

The natives believed implicitly that the white men in the strange flying machine had brought the awful earthquakes and storms of ashes, and that now they were burning up the poor Indians for a part of the day and freezing them the rest of the time.

Believing all the whites in the region leagued together they had at once driven out the traders at Aleukan. This Indian did not know what had become of the traders and their assistants. They had started on dog sleds toward the Polar Ocean.

No train had come in from Coldfoot for a month. Therefore it was plain that the supplies Professor Henderson had expected to meet him here would not now arrive. The pass through the Endicott Range was so high that, so the party all believed, an attempt to cross the mountain range would result in the death of those who attempted. There was no atmosphere at the altitude of that pass.

There were no more shots fired after the Indian was brought in by Washington. The whites talked the situation over and finally the oil man made the Aleuts an offer through the captive. It was agreed that if the white men were allowed two sleds and two teams of good dogs, with provisions for the dogs to last a week, they would instantly set out on the trail of the

departed traders, thus removing their fatal pres-

ence from the vicinity of Aleukan.

This agreement was considered wise by all hands, for they felt the necessity of joining if possible white men who were more familiar with the territory than they were. In numbers there would be strength. If there was to be a war on this new planet between the whites and the reds, it behooved our friends to join forces with their own kind as quickly as possible.

The captured Indian was made to accompany the train for two days and then was freed. The dog teams swept the party over the frozen trail at good speed toward the Anakturuk River which empties into the Coleville, which in turn reaches the Arctic Ocean at Nigatuck, in sight of the

Thetis Islands.

Food was very short. Game seemed to have fled from the valleys through which they passed.

The cold at night (the only time they could travel) remained intense. And that flight toward the ocean shore—or what had once been

that shore—was a perilous journey indeed.

CHAPTER XXV

THE HERD OF KADIAKS

JACK DARROW and Mark Sampson had never experienced so arduous a trip by dog sled as this. The party was really running a race with starvation. The terrible frosts of each long night on this island in the air had killed every species of vegetation the country wide, save the very hardiest trees and shrubs. The country, which two weeks before had been verdant as only a northern country can be verdant in late summer, was now as black as though a fire had swept over it.

Everywhere, too, lay the volcanic ashes that had fallen ere the new planet had been shot from the earth by the volcanic eruption. It was indeed a devastated country through which the Alaskan dogs drew them.

They dared not drive the dogs more than twelve hours out of the long night; but when the word was given to "mush," and the train started, the party kept up a good speed for those dozen hours.

Andy Sudds and Phineas Roebach took the

lead in this journey. They understood better how to handle the dogs and how to choose the trail. But, indeed, the trail was pretty well marked for them by the white traders who had gone before. Their camping sites were marked by a plenitude of discarded and empty food tins.

The party ahead, in whose pursuit the boys and their friends were, undoubtedly traveled just as fast as Jack and Mark. And they had a week's start, according to the Indian who had not been allowed to return to his fellows until the whites were well along the trail to the Anakturuk River.

The valley of the river, when they reached it, was a desert. There was little wonder that most of the game had fled. All herb-eating animals would have died for want of forage.

"I am not sure," the professor said, gravely, during one of their campfire talks, "that physical life of any kind can long exist in this small planet. The vegetation is being rapidly destroyed. Soon the ground will become like rock. The carnivorous beasts will live for a while on the more timid creatures, then they will fight among themselves until the last beast is destroyed.

"There were no great lakes in this Alaskan region when our present planet was a part of the earth. We do not know how full the streams may be of fish. There are few birds to be seen, that is sure. I fear that before many years this will be either a dead and frozen island floating in space, or it will be absorbed by some other body of the universe."

"You said, Professor," Jack observed, "that its ultimate end would either be to fall into the sun, or collide with the earth."

"And that is my belief yet; but I have no means of knowing surely."

"I hope she bumps the world again!" cried

Jack. "Maybe we can get off then."

"It will do a lot of damage when it falls," said Andy Sudds, reflectively. "Some folks up there in the earth will get hurt."

"Perhaps not," the professor said, hastily.

"How can it be otherwise?" Mark demanded. "This fragment of the world must be enormously heavy. Cities—counties—whole states will be buried if we should fall into the earth."

"Not if we came down into one of the big oceans," said Professor Henderson. "We would probably sink some vessels, and might overwhelm islands; but if this island in the air is as big as Australia it could easily fall into the Pacific and do no particular harm to any present existing body of land—save through the great tidal waves that would result from such a fall."

"It is an awful thing to think of," cried Mark.
"I don't see, no matter how this awful affair,

ends, but that we are bound to be overwhelmed."

"We do not know that," declared the professor, with his wonted cheerfulness. "Never say die. Our safety is in the hands of Providence. We have not got to worry about that."

"Isn't he a wonder?" whispered Jack to his chum. "We ought to take pattern by him.

Our grumbling and anxiety is a shame."

Yet it was very difficult to remain cheerful under the circumstances as they then were. Their provisions, even for the dogs, were at a low ebb. Not a shot at edible bird or beast had they obtained since leaving Aleukan. And the torrid sun by day and the frost by night were most try-

ing.

"However," said Professor Henderson, "I have kept a careful account of the fluctuations of temperature since the catastrophe, and I find that the mercury does not descend into the bulb so far now as it did at first. We are circling the earth, as the earth circles the sun. At present we are turning more toward the sun. It is coming summer. The sun will more and more heat this torn-away world. I do not believe that vegetation will start, and I look for nothing but frost during the hours of the sun's absence. But the cold night is not so intense as it was at first."

"It's quite cold enough, just the same," Phineas Roebach grunted. "It was summer a few days ago—the best summer this part of Alaska ever has. And to jump right into cold weather—midwinter, as ye might say—is enough to kill us all."

The oil man simply ignored the professor's scientific explanations of their situation and the changes in their environment. He absolutely would not believe that they were floating in the air above the earth's surface.

The trail down the valley of the Anakturuk was fairly smooth and well defined; when they struck the Coleville—a much wider stream—the shore was very rugged, and the dogs could scarcely drag the sleds over some stretches of the route.

The traders who had gone before them were certainly having a hard time. Our friends traveled very slowly for two days, walking most of the time. Then they found that the veil of ice that had formed on the wide stream since the region had become a torn-away world, would bear both men and dogs; the sun merely made it spongy for a few hours each day, but did not destroy the ice, which was now three or four inches thick.

Each night when the sun set and the air cooled the water on the surface of this sheet of smooth ice congealed again, making a splendid course for skating—had they only possessed the skates.

But the sleds slipped more easily over the ice and the dogs were saved for two or three days longer. The brutes were almost starved, however, and one of them going lame, when they were released at a certain stopping place, the others pitched upon their wounded comrade and like wolves tore the unfortunate dog to pieces before Roebach could beat them into submission.

Andy Sudds chopped through the ice and set lines for fish; but the catch was so small that the party could not spare more than the bones for the dogs. Starvation faced them. Mark was miserably despondent, and Wash was so lugubrious all the time that he seldom exploded in his usual pyrotechnical displays of big words. His grain supply for the Shanghai had completely run out, too, and the colored man divided his own poor rations with his pet.

"And the rooster's that lean he wouldn't be anything but skin and bone if we killed and cooked him," Jack wickedly proposed.

Wash looked upon his young friend in extreme horror.

"Eat Buttsy?" he finally gasped. "Why Massa Jack! I'd jest as lief eat a baby—dat I would!"

But the matter of eating was past the joking stage now. The dogs fell on the ice and could not get up again. It was a mercy to put them out of their misery, and this is what Phineas Roebach and Andy did—shooting each faithful creature through the head and leaving the carcasses for the wolves which had, all this time, followed the little party at a respectful distance.

"If wolf meat was fit to eat we'd certainly live on the fat of the land," quoth the oil man.

"I wouldn't mind meeting a bear—savage as

that other fellow was," said Andy Sudds.

And before they were through with this adventure they saw all the bear meat—and that very much alive—that the party ever wished to behold.

First, however, came Mark's invention. They dragged the empty sleds—after the dogs were killed—for several miles and then went into camp beside the stream, while the sun rose and warmed them most uncomfortably.

Roebach suggested abandoning the sleds as they could carry the little stock of movables they now owned. But Andy was opposed to this as he feared the professor might break down, in which event they would have to drag him.

"We must keep one of the sleds, at least," the

old hunter insisted.

"I have a scheme," quoth Mark, suddenly. "Why not use the sleds—both of them?"

"True enough—why not?" scoffed Jack. "Let's keep them to slide down hill on. Do you

realize that the professor says we are still three hundred miles from Nigatuk and the mouth of the Coleville?"

"That is the reason I suggest traveling by sled instead of dragging them behind us," said Mark, unruffled. "I've got an idea."

Jack stopped then. When Mark said he had an idea his chum knew it was probably worth listening to, for Mark possessed an inventive mind.

"We will have to strap the robes and blankets on our shoulders if we abandon the sleds," Mark Sampson said, quietly. "Let us utilize them to better advantage and save the sleds in addition."

"How?" asked Phineas Roebach.

"Make sails of the robes and propel the sleds, riding on them, too," declared Mark. "Such wind as there is is pretty steadily at our backs. Why not?"

"Why not, indeed?" shouted Jack. "Hur-

rah for Mark!"

"A splendid thought, my boy," declared the professor.

Poles were cut for masts and Andy rigged a stout one on each sled, with cross-pieces, or spars, to hold the blankets spread as sails. Andy even rigged sweeps for rudders with which to steer these crude ice-boats. They got off under a fair wind as soon as the river was passable again,

and ran fifty miles straight away without stopping. This was a great lift toward the end of their journey, and all plucked up courage. The Shanghai seemed to share the feeling of renewed hope, and began to crow again.

They were obliged to rest over the sunlit day, as before, for the ice became covered with a sheet of water an hour after sunrise, and they were afraid the sled runners would cut through and let them all down into the stream.

However, they saw very well that—barring some unforeseen accident—they would be able to reach the mouth of the river before the last of their scanty food supply ran out. All the way now they looked for signs of the traders from Aleukan, who had started for the coast ahead of them. These men, however, seemed to have left the rough path along the bank of the Coleville, and were either traveling on the ice ahead, or had struck off into the wilderness.

When they set sail for a second time the heavens, for the first time since the final cataclysm that had shot them off into space, were beginning to be overcast.

"There is so great an evaporation while the sun is shining that I am surprised that we have not had snow before," the professor observed. "These mists rising from the earth and the bodies of water would become heavy nightly rains in any other climate. Here they will result, now that the atmosphere has become saturated with moisture, in heavy hail storms and much snow. It is nothing more than I have looked forward to."

The remainder of the party were not so much interested in the natural phenomena as he, however; they looked forward mainly to reaching some safe refuge—some place where there were supplies and the fellowship of other human beings.

The wind increased, but its keenness the party did not mind. They were only glad that it remained favorable to their line of travel. They swept down the frozen river at a speed not slower than ten miles an hour.

The wolves had followed them on the ice, or along the edge of the river, up to this time. They saw, indeed, a pack of the ugly creatures on a wooded point ahead of them, at a distance of a couple of miles. But before the sleds reached this point (which served to hide the icy track beyond) the wolves suddenly disappeared.

"Something has scared them fellers," Andy declared.

"The traders?" suggested Jack, who traveled with the old hunter and Mark on one sled, while Roebach, Wash and Professor Henderson sailed on the other.

"Not hardly. Men wouldn't scare them critters so. Something bigger and uglier than the wolves themselves, I reckon."

To prove how true Andy's guess was, Mark shouted the next moment:

"A bear—two of them! Three! See that crowd of bears, will you? No wonder the wolves skedaddled."

Several of the huge bears, like the one they had had the fight with on the glacier, appeared out of the woods and waddled on to the ice. They had evidently sighted the sailing party, and they roared savagely and tried to head off the sleds. That they were wild with hunger, there could be no doubt.

"I have heard the Indians say that, in bad seasons, the bears travel in packs like wolves, and will attack villages and tear the huts to pieces to get at the inmates," Roebach said, from the other sledge.

"How fortunate that we are not afoot, then," Professor Henderson remarked.

The next moment the two sleds shot around the wooded point and the river below lay before them. The bears were galloping after the party and shut off all way of escape to the rear.

"Oh, gollyation! Looker dat mess ob b'ars!"

shrieked Washington White.

And there was a good reason for the black

man's terror. Strung out across the frozen river, as though they had been waiting for the coming of the exploring party, was a great herd of Kadiak bears—monsters of such horrid mien that more than Washington were terror-stricken by their appearance.

There were more than half a hundred of the savage creatures, little and big, and they met the appearance of the two sailing sledges with a

salvo of bloodthirsty growls.

CHAPTER XXVI

THE ABANDONED CITY

It was too late for our heroes and their friends to escape giving battle to the bears. They could not steer the sleds clear of the monsters, nor could they retreat. There were enough of the savage beasts in the rear to make this last impossible.

"Come ahead!" yelled Andy Sudds to Phineas Roebach, who guided the second sled. "Don't

stop."

Jack and Mark, with the old hunter, were on the first sled. They were armed with magazine rifles, and all seized these and prepared to fight for their lives.

Andy jammed the sweep with which he had been steering between his knee and the stake at at the rear of the sledge, and put his gun to his shoulder.

"Shoot into the nearest bears, boys," he commanded. "You both take that big fellow right ahead. Get him down and I'll try to pepper those on either side."

But the bears were all shuffling across the ice

to get at the sailing sleds. They were fast bunching immediately in the front of their human enemies.

Jack and Mark obeyed the old hunter's order. They poured their fire into the huge, shaggy beast that rose on its hind legs before the sled, and roaring, spread its huge paws abroad

ready to seize it and its human burden.

Fortunately the wind had suddenly increased as the sleds rounded the wooded point. They were traveling faster. The lead pumped from the rifles of the two boys spattered against the breast of the great grizzly, and stained its coat crimson in great blotches. But he stood, roaring in rage and pain, until the sled was right upon him.

Jack and Mark were forward of the sail, which was hoisted amidships. The sled was surrounded by the savage beasts, and when it struck the tottering brute that alone stood in its direct path, there seemed to be at least half a dozen of the bears on either side, rising on their haunches in preparation to strike.

The collision almost overbalanced the sled. It certainly overbalanced the bear, that had been hit by eight bullets from the rifles of Jack and Mark. And the huge body, lying right across

the path of the sledge, halted it.

"Swing your guns, boys!" bawled Andy.

"Jack to the left, Mark to the right hand."

Our heroes understood this command. They had been in tight places before with the old hunter, and now they partook of his enthusiasm.

The rifles spattered the lead among the nearest bears. Some of the creatures fell back wounded. Some were merely enraged the more and, roaring their wrath, continued to advance.

Meanwhile the old hunter had seized the steering sweep and endeavored to turn the sled aside. It had rebounded from the heavy carcass of the bear which had dropped upon the ice before it. Now Andy tried to work the sled around this obstruction.

The second sled came on, the professor relieving Roebach at the helm, and the oil man and Washington White pouring in volley after volley at the bears. The black man was a good shot and in the excitement of the battle he forgot to be terrified. His bullets told as well as did those from the rifle of Phineas Roebach.

And fortunately the aged scientist brought this second sled safely through the line of bears. The first sled took the brunt of the battle. When that on which the professor sailed was a hundred yards beyond the herd of Kadiaks, he swerved it into the eye of the wind and so brought it to a halt without lowering the blanket that served as a sail.

"Come on back and help' em!" cried Phineas

Roebach, leaping out upon the ice.

He started back toward the fight, firing as he went. Wash followed more cautiously; and when one wounded beast started on a lumbering gallop in his direction, the colored man uttered a frightened shriek and legged it back to the professor.

Fortunately just about then the sled on which the boys and old Andy fought, came through the ruck of the struggle. Andy hacked with a hatchet the paws from the last Kadiak that tried to seize the sled, and the two boys continued to pour bullets into the howling, roaring pack.

They took Phineas aboard the slowly moving sled and so reached the professor and Wash. Immediately that sled was put in motion and the party traveled a full mile before they dared halt

and take stock of the damage done.

The bears had given up the pursuit. The ice for yards around had been crimsoned by the blood of the huge beasts. They could count, even at that distance, ten dead ones, and many would die of their wounds.

"And we didn't get even a slice of bear steak

to pay us for it all!" groaned Jack.

"Wrong," returned Andy Sudds, proudly, and he held up the two paws he had severed from the last brute. "Those will give us all a taste of fricassee—and that same dish will be a welcome one, I declare."

They were not again molested by bears; but looking back when they had traveled on some distance farther (the river being straight in this place) they saw a huge pack of wolves gathering on the ice—more than two hundred at least of the savage brutes—and believed that a battle royal was in progress between the remaining Kadiaks and the wolves.

"I hope they fight like the Kilkenny cats!" declared Jack, with emphasis. "And I hope the wolves will be kept so busy picking the bones of the slain that they will follow us no farther. They are like sharks at sea. I hate the beasts."

The country they passed as they slid down the river remained all but deserted. The wind rose and wafted them faster and faster on their way; but it was plainly bringing them a storm, too.

When the sun rose next time it was behind a thick mantle of mist. Thunder rolled across the heavens and the lightning glared fitfully. The heat had been unbearable before the storm, and the downpour of rain was terrific. The party was washed out of its encampment, and had it not been that Andy discovered shelter for them in a sort of cavern under a huge boulder, they would all have been saturated.

The storm ended with a sharp fall of hail.

Hailstones as big as duck eggs fell, and the wind blew so that a portion of the river-ice was broken up. When the storm ceased the sun was only an hour high and it was already cold.

There being no dry wood now, the party suffered exceedingly before they were able to set sail again on the re-frozen river. Quite six hours elapsed after the cessation of the hailstorm until the ice would again bear.

The wind had then risen to a gale, and once under way, the sleds were borne on under closely reefed blankets. They traveled down the stream at a furious pace—at least twenty miles an hour—and arrived within sight of Nigatuk. But the appearance of this large and lively town (or so they had been led to expect it to be) was startling.

Not a house was standing. Most of the ruins were blackened by a devastating fire. And silence brooded over the place—a silence undisturbed by a human voice, the bark of a dog, or any other domestic sound.

The delta of the Coleville River hid the ocean beyond. All they could see were the ice-bound forks of the stream. And no sign of life appeared in all that vast region to which they had flown for refuge and food.

CHAPTER XXVII

THE WHALE HUNT ASHORE

THE depressing influence of this disappointment could not fail to be felt by all—even by the old professor. They were without an ounce of food and had no means of continuing their journey, even had they possessed an objective point.

Nigatuk was expected to have stores. Whalers as well as Government ships often touched there. If this torn-away world was to float about the parent globe for long, Nigatuk might have become a focussing point for all the inhabitants of the new planet.

But the volcanic eruption, or the earthquakes, had evidently shaken Nigatuk to bits, and fire had finished what remained after the earthquakes got through. As for the former inhabitants of the place, our party could not even imagine what had become of them.

When they went through the wrecked town, however, they found many bones picked by the wolves. Some of the Nigatuk people had met their death and the savage beasts had reaped the harvest.

They found no signs of the company of traders whom they supposed they had followed from Aleukan, far up in the foothills of the Endicott Range. Not a boat was frozen into the ice at what had once been the wharves at the abandoned city. That the remaining inhabitants had sailed away after the catastrophe was at least possible.

"At least, the ocean must be out yonder somewhere," declared Phineas Roebach, pointing down the nearest estuary of the Coleville.

Professor Henderson did not verbally agree with this statement; yet he made no objection to the suggestion that the party take up its journey again toward the sea.

The wind was fitful. They traveled unsteadily, too, tacking back and across the estuary, because the breeze was so light, and no longer astern. Ten miles down the mouth of the stream they beheld an island where huge sheets of ice were piled one upon another, in an overhanging jumble of ice-hummock, some fifty feet high. And along the edge of this cliff was a herd of sea lions, that roared mournfully as the sleds advanced.

"Thank goodness!" exclaimed the professor.
"There is meat again."

Andy and Roebach needed no urging to the attack. Nor did the boys. They disembarked carefully and made a detour so as to get at the

rear of the herd. The sea lion is not a very sagacious beast.

Jack and Mark were on either side of the old hunter and were moving upon the herd with considerable circumspection, and all had about come to a place where the rifles could be used effectively, when Jack Darrow spied something that brought a cry to his lips.

Fortunately both the hunter and Mr. Roebach fired the next instant and two of the sea lions were hit. The remainder of the herd slid over the ice-cliff and flopped away at good speed toward a break in the ice through which they could get into the water.

But Jack began to dance and shout, and Mark was too surprised to even fire at the herd.

"What under the sun is the matter with you, chum?" exclaimed Mark, with some asperity. "You're as bad as Washington White."

"Maybe I'm worse," bawled the cheerful Jack.

"You scared off them sea lions, boy," admonished Andy Sudds. "We only got two of them."

"Don't care if I did," replied Jack. "See yonder!"

The others followed the direction of his pointing arm with their gaze. Off beyond the headlands at the mouth of the river rose a column of thick black smoke. It was as big a smoke as

though some great forge or factory was working overtime in that direction.

"Hurrah!" cried Mark, re-echoing his chum's

delight.

The entire party was delighted. Yet not knowing who the people were who made the smoke, nor under what circumstances they would find them, the dead sea lions were packed aboard the sleds before they continued their way down the river.

"That smoke lies a good way beyond the mouth of the river," said Phineas Roebach. "I believe it is on the sea."

"A vessel afire?" proposed Mark.

"It's a fire on a vessel," said the professor, suddenly. "I believe that is the smoke of the trying-out works on a whaler."

"You've hit it, Professor," agreed Andy Sudds. "It's a whaler for sure. There's more than you, Phineas, hunting for oil up in these

regions."

"A whaling ship on this island in the air," murmured Jack. "What will they do with the whale oil? They will never get back to San Francisco again."

"We do not know that," said the scientist,

gravely.

The last few miles, during which they could not see beyond the high ice-shod banks of the

estuary, were traversed slowly enough. They all grew anxious to know what the column of black smoke meant.

Finally they came to the open mouth of this branch of the river. The sight they beheld almost stunned them.

Instead of an ocean, rolling up in great surges upon the beach on either hand, they beheld a vast sink through which the partly ice-bound river crawled as far as the eye could see. They knew that this was the old bed of the Arctic Ocean; but the waters of that cold sea had receded and left little but ice-bound pools here and there.

"Fo' de goodness gracious sake!" cried Wash. "Does yo' mean ter try ter mak' me beliebe dat disher place is whar' de great an' omniverous ocean once rolled? Dat de hugeous salt sea broke its breakers on dem ice-bound shores? Git erlong, chile! Yo' is tryin' ter bamboozle me, suah."

"That is where the Arctic Ocean rolled, all "I can right," growled Phineas Roebach. swear to that. I have been here before. Something has certainly happened to it."

"I declare!" chuckled Jack Darrow, who could not miss the joke, despite the seriousness of their situation. "Somebody has removed the

ocean without permission."

Behind a great fortress of rock which had once been an island they saw the same column of smoke. But it was something nearer to them on the bed of the Arctic sea that more particularly attracted their attention.

"Look at that thing! That monster!" cried

Mark, pointing.

"And there is another!" shouted Jack.

"Whales!" yelled the excited Andy Sudds.
"Those are whales as sure as shooting—there's a school of them here."

And they had no more than made this discovery when a party of men, all dressed in furs and some dragging great sleds behind them, came out from behind the pile of rocks which had certainly once been an island in the ocean.

These new-comers did not see our heroes and their friends, but they approached the whale stranded nearest to the rocks. This huge leviathan, like all the others of the herd, was long since dead. The men attacked him with blubbersaws and axes and began to cut him up in a most workmanlike manner.

"A whaling ship, sure enough," declared Professor Henderson, who seemed the least astonished by these manœuvres. "We will be among friends soon. And we will hope that the ship—despite the fact that her crew has come whaling ashore,—will have her keel in deep water."

The party ran their sleds ashore on the right bank of the river at its old mouth. Then they started at a round pace for the spot in the old bed of the ocean where the crew of the whaler were cutting up their prize.

CHAPTER XXVIII

ON THE WHALING BARK

It was several miles from the brink of what had once been the polar sea to the spot where the whalers were at work. Jack Darrow, Mark Sampson, and their friends found it a difficult

way to travel too.

Naturally they had abandoned the sleds. The ice on the stream which flowed out of this mouth of the Coleville River was so broken that they could no longer use it as a highway. The bottom of what had once been the ocean was only partly ice-covered. There were enormous rocks to climb over, or to find a path around. Reefs and ledges reared their heads fifty feet and more high. There were sinks, too, in the floor of the old ocean; but these were mostly covered with ice.

The Arctic Ocean must have receded at the time of the upheaval which had flung this island into the air so rapidly that many of the sea's denizens, beside the school of whales, could not escape.

Here, in one big pool, lay frozen in the ice

a monster white shark. It had battered itself to death against the rocks in trying to escape. Through yonder blow-hole in another pool there suddenly appeared an enormous bewhiskered head, with great tusks like the drooping mustache of a soldier.

"A walrus!" exclaimed Jack, recognizing the creature.

"And yonder are seals playing in the open pool," said Mark.

"These pools, or lakes, are still of salt water," said the professor, thoughtfully. "Ah! what would I not have given to have been on that headland yonder at the moment the ocean went out."

"Not me! Not me!" cried Phineas Roebach. "I'd gone completely off my head then,

for fair-I know I would!"

"Mr. Roebach is not quite sure now that he isn't suffering from some form of insanity," said Jack, chuckling.

"Den it suah is too bad dat we nebber kin fin' dat chrisomela bypunktater plant ter cure him wid," declared Washington White, dolefully.

"But, by the piper that played before Pharaoh!" ejaculated Phineas Roebach, at last brought to a point where he had to admit that no reasonable explanation would fit the conditions confronting them, "tell me this: What has become of the Arctic Ocean?"

"You can search me!" drawled Jack. "I can assure you, Mr. Roebach, that I haven't seen it. Have you got it, Mark?"

"The question of what has become of this great sea which once washed the shore we are now leaving," said Professor Henderson, seriously, "is a remarkably interesting one. The ocean may have merely receded for a few miles at the time of the volcanic eruption and earthquake which threw off this new planet."

Phineas Roebach shook his head at this, but

said nothing.

"It may be," pursued Mr. Henderson, "that that part of our old world that was shot into space did not include much of this Arctic sea. We may find beyond here," pointing, as he spoke, ahead, "instead of the receded ocean, no ocean at all. We cannot believe that this island in the air is spherical like our own old earth. It is a ragged form which will show on what we may call the *under* side the very convolutions and scars made by its breaking away from the old earth. Do you get my meaning?"

"Yo' suttenly is a most liquid speaker, Perfesser," declared Washington White. "Yo' was sayin' dat w'en disher new planet broke off de earf, she slopped over de whole Arctic Ocean."

"Perhaps that puts it quite as simply," said Professor Henderson, smiling grimly. "The ocean 'slopped over.' It was either left behind to partly fill the cavity left by the departure of this torn-away world we are living on, or it has receded into the valleys and sinks upon the other side of this small planet."

Phineas Roebach threw up both hands and groaned.

"It's as clear as mud!" he cried. "I don't understand a thing about it."

But the old professor went on without heeding him, knowing that his pupils, Jack and Mark, were deeply interested in the mystery of this tornaway world, or island in the air.

"It is a moot question whether or not the weight of the water which lay in this vast sink, before the eruption, was not needed, and is not needed right now, for the balancing of this tiny planet we are living on. Nature adjusts herself to every change more quickly than human intelligence. How much of the crust of the earth, extending up into the polar regions, was broken away from our old world, we do not know. But that it is now perfectly balanced we can have no doubt—that balance is proved by the fact of the regularity of the recurrence of night and day."

These and many other observations Professor Henderson spoke as the party continued its rugged advance over the more or less dry bottom of the ocean. In two hours the party was observed by the crew of the whaler at work on the carcass of the great whale. The sailors signaled to them, and when the boys and their friends drew near, some of the whalemen ran forward to welcome them.

"More refugees from inland, eh?" exclaimed a rough but cordial seaman, who proved to be the captain's harpooner and boat-steerer. "We have some traders from Aleukan already with us."

"Ah!" said Professor Henderson, "we have been looking for them. They have arrived in safety, then?"

"But nearly frozen," said the boat-steerer.

"And where are the people of Nigatuk?"

"We believe all those not killed or burned in the first earthquake were taken off by the United States revenue cutter *Bear*. She sailed for Bering Sea some time before the final earthquake."

"And where is the ocean?" demanded Phineas Roebach.

"It was sucked away in a great tidal wave and left the Orion high and dry yonder," said the sailor.

It was evident that the sailors had no appreciation of the real happening. They did not know that they were cut off from the old earth by thousands of miles of space.

"Your bark's name is Orion, then?" queried the professor.

"Aye, aye, sir," said the boat-steerer. "The Orion, out o' New Bedford; the only whaler under sail in these seas, I reckon. Most o' them that's after the ile is steam kettles," he added, thus disrespectfully referring to the fleet of steam whalers from San Francisco.

"But we got 'em all beat, I guarantee," he added, grinning. "We was chasin' a school of big fellers when the sea sucked out and left us an' them high and dry. But the skipper says the sea will come back in good time and meantimes we gits the ile."

Just then the boat-steerer was sending off several sled loads of blubber to his ship, and Jack and Mark, with the professor and their companions, accompanied the cargo.

The Orion was a fine big bark and was commanded by an old-fashioned Yankee skipper of the type now almost extinct. He welcomed the travelers aboard his ship most cordially, the ship itself all of a stench with the trying blubber, and overshadowed by a huge cloud of black smoke, for the fires were fed with waste bits of blubber and fat.

The skipper and crew were literally "making hay while the sun shone," for there were more than twenty huge leviathans within a circuit of ten miles from the bark, and they proposed to have every one of them before the flocks of seabirds, or the bears, should find and destroy the stranded creatures.

"We'll fill every barrel and be ready to sail home with our hatches battened down when the

sea comes back," declared Captain Sproul.

"And you are quite sure the ocean will return and float your bark?" queried the scientist, patiently, for he saw that it was quite as useless to explain what had happened to this hard-headed old sea-dog as it was to talk to Phineas Roebach.

"You can bet your last dollar it will come back, Mr. Henderson," declared Captain

Sproul.

"Why do you think so?" asked the professor.

"Why, the ocean always has been here; ain't it?"

"I expect so-within the memory of man."

"Then it will come back!" cried the skipper of the Orion, as though that were an unanswerable argument.

"But what do you call that up yonder?" asked Professor Henderson, pointing to the calm-faced earth rolling tranquilly through the heavens, while her satellite, the moon, likewise appeared.

"We certainly are blessed with moons," said Sproul, nodding. "And mighty glad of it I be. As the day is so short now, and the sun is so hot, two moons to work by is a blessing indeed to us whalers."

"And you don't consider that new planet anything wonderful?" Jack Darrow asked Captain Sproul.

"Not at all. We often see what they call sun

dogs; don't we?"

"I have seen such things," admitted the youth, while he and Mark smiled at the old skipper's simplicity.

"That double moon is like that, I reckon," said Sproul, and that ended the discussion.

CHAPTER XXIX

WHEN THE SEA ROLLED BACK

THE boys were interested in this novel kind of whaling; but they were more deeply interested in the possible outcome of the situation in which they, and their friends, and the fur-traders, and

the bark's crew, were all placed.

The tearing away of this piece of our planet, on which the boys and their companions now sailed, must end finally in some terrible catastrophe. It would be catastrophe enough if the tornaway world never returned to the earth, but sailed forever and ever, round and round its parent planet. Our heroes and their companions would then be marooned without hope of rescue on a fragmentary planet in space, the said planet doomed to become a mere lump of dead and frozen matter adrift in the universe.

Professor Henderson set up the powerful telescope that he had brought, with his other instruments, all the way from the wrecked flying machine left in the crevasse of the great glacier, and busied himself in filling his notebooks with data relating to the movements of this new planet, and

of the strange and remarkable incidents occurring each hour of their imprisonment on the island in the air.

Jack and Mark, however, found time to help the whalemen secure the oil from the carcasses of the stranded leviathans which surrounded the Orion. They, with old Andy and Phineas Roebach, began to go out with the parties of blubberhunters to guard them at their work. For now great troops of polar bears appeared from the north, evidently making their way from the fields of ice that likewise had become stranded on the old sea bed; and these white bears were as savage and as hungry as were the Kadiak bears that infested the river.

The two chums, thus engaged, had an adventure one day that they were never likely to forget. Seeing that there were several of the huge walruses imprisoned in the lakes of salt water remaining in the ocean bed, Jack and Mark desired to kill one for its great tusks. They knew where there was one of the beasts—half as heavy as an elephant—and not far from one of the last whales the crew of the *Orion* were cutting up. The boys were guarding this special party of seamen at their work, but had seen no bears since sunset.

There was plenty of light, for both the earthplanet was shining on them and her moon likewise, although the latter was now in her last quarWHEN THE SEA ROLLED BACK 231 ter. Quite sure that the sailors would not be molested, Jack and Mark crept away toward the pool where they had seen the walrus.

They soon found, however, that they were not alone. Washington White had come over from the bark, and seeing what the boys were about

he followed them.

"Is you suah 'nuff gwine ter try an' shoot dat hugeous wallingrust, an' pull his teef?" he whispered. "Yo' boys will git killed, some day, foolin' wid sech critters."

"You'd better go back, then," said Mark, "if

you are afraid."

But the darkey wanted to see how the boys proposed to go about the work of capturing the walrus. Jack had prepared a long and stout line with a whale lance at one end and a sharp spike at the other. The boys very well knew that the bullets from their rifles would make little impression on the walrus. They had to go about his capture in a different way from shooting bears.

The salt water lake in which the walrus was trapped was perhaps a mile across, and there were several blow-holes in it. The party had to lie down behind a barrier of seaweed that the wind had tossed up in a great windrow, and wait for the walrus to appear at one hole or another.

When his fierce head came into view Jack and Mark, with their satellite, Washington, crept

around to the rear of the creature, and then made a swift but careful advance upon his position. They reached a spot upon the ice not more than ten yards from the blow-hole without attracting the attention of the walrus.

Instantly Jack motioned his chum to stand ready to drive the steel spur at the end of the line into the ice to hold the beast, while he went forward with the harpoon. Right at the edge of the broken ice, within ten feet of the monster, Jack Darrow stood a moment with the weapon poised.

He swung back his body and arm, aimed true for the spot behind the shoulders of the walrus, and then drove the iron home with all his strength.

The harpoon sank deep, and a mighty roar burst from the lips of the stricken beast. Mark drove down the steel peg, stamping on it to fix it securely in the ice. The walrus threw his huge body around and came half out of the water upon the ice to reach his tormentor. But Jack was ready for this move, and he sprang back, out of danger, and picked up his rifle.

The ice of course broke under the walrus for yards around. His fierce little eyes seemed to take in every move of his tormentors. He saw both boys (for Mark, too, had reached his gun) spreading out on either hand to get in fatal shots

if they could. Meanwhile Washington White stood on the line close to the peg in the ice so that the beast could not jerk free.

"Take him in the eye, if you can, Mark!" shouted Jack. "The cap of blubber he wears will act like a cushion if we shoot him in the head."

But before either of them could obtain a satisfactory mark, the beast sank from sight. He had broken the ice for some yards toward the place where the end of the line was fastened, and he now had plenty of slack. The boys waited expectantly for his reappearance, while Wash stood, open-mouthed and eyes a-roll.

Suddenly the black man executed a most astounding acrobatic feat. From that standing posture he executed in the twinkling of an eye a swift back somersault, at least twenty feet from the ice!

"Oh, gollyation! I'se a goner!" he yelped, as he described his surprising parabola through the air.

The ice where Wash had stood, and where the steel peg had been driven in, was crushed to fragments as the huge head and shoulders of the wounded walrus came up from the depths. The creature had marked the negro's position exactly, and had burst through the ice at the right spot. The wonderful lightness of all matter on this torn-away world, however, saved the darkey's life. The blow threw Wash so far away that the walrus could not immediately get at him.

But he evidently laid his trouble entirely to the black man, and he threw himself forward along the ice, smashing it to bits, and gnashing at it with his tusks. In half a minute he would have been on the spot where the negro lay had not the boys run in swiftly and pumped a dozen bullets into his eyes and down his open mouth. By good luck more than good management they killed the beast.

"See wot yo' done done!" wailed Washington White, rising gingerly and with a hand upon the small of his back. "Yo' come near ter spile-in' Perfesser Henderson's most impo'tant assistant. How do you 'speck de perfesser c'd git erlong widout me?"

This was certainly an unanswerable question, and the boys admitted it. They were sorry Wash had been so badly frightened, but they were delighted at the possession of the tusks of the walrus. The whalers secured the body, too, and made a very good quality of oil out of the blubber.

In hunting adventures, and in the labor of trying-out the whale blubber, several weeks passed. The marooned scientist and his friends, with the crew of the whale ship, experienced some bad weather during this time. For three entire days a terrible snowstorm raged—a blizzard that drifted the snow about the *Orion* (which had chanced, when she was stranded, to settle on a perfectly even keel) until one could walk over her rail out upon the bottom of the sea.

But when this storm passed over the sun came out and shone as tropically as ever. The snow melted very rapidly and the old sea bed was soon awash. The beasts and fish still alive in the sinks were enabled to reach the streams running out of the various mouths of the Coleville, and these creatures took to deep water.

"By Jo!" ejaculated Captain Sproul, "give us a leetle more water and we'd sail the old Orion after them, and reach the open sea again."

He had every belief that the ocean would return to its former bed, and his crew believed it, too. But Professor Henderson and the boys seriously discussed making some move from this locality.

It was plain that there was still plenty of game along the shore of the old ocean, and they had about made up their mind to follow the edge of the shore toward Bering Sea and if possible find the revenue cutter *Bear*, when another storm broke over them.

No snow fell this time. There was almost continual thunder and a downpour of rain and hail that was sufficient to smother anybody that ventured out upon the deck of the *Orion*. The new planet seemed to be in the throes of another eruption, too.

Lightning lit the waste about them with intermittent flashes. They had lost sight entirely of the old earth, of the moon, and of the sun. It seemed to Jack and Mark as though this tiny island in the air must be flying through space again, buffeted by every element.

The wind wailed and screamed about the whaleship. There were more than sixty souls aboard and they crouched in the cabin and in the forecastle and knew not what to make of such a foray of the elements. At one moment the rain flooded down upon the decks as though a cloud had burst directly above them; then great hailstones fell, drumming on the planks like musket balls.

The calmest person among them all was Professor Henderson. Captain Sproul had given the aged scientist the use of the small chart-room. There he had set up certain of his instruments, and he hovered over these most of his waking hours, making innumerable calculations from time to time. During the awful turmoil of the elements he watched his instruments without sleep. The boys remained with him most of the time, for they realized that some catastrophe was threatening which the scientist feared but did not wish to explain at once.

Suddenly Captain Sproul burst into the chartroom and gasped:

"Can you tell me the meaning of this, Mr. Henderson? You're a scientific sharp and know a whole lot of things. My cook just went to the galley door to throw out a pot of slops and something—some mysterious force—snatched the heavy iron pot out of his hand and it went sailing off over the ship's rail. Can you explain that?"

"Wasn't it the wind snatched it away?" asked Jack Darrow, before the professor was ready to answer.

"Don't seem to be no wind blowing just at

present," said Captain Sproul.

"Wait!" commanded the professor. "Order every companionway and hatch closed. Do not allow a man to go on deck, nor to open a deadlight. We must exist upon the air that remains in the vessel for the present."

"What do you mean?" gasped the skipper.

"There is no air outside!" declared Professor Henderson, solemnly. "We are flying through space where no atmosphere exists. The iron pot merely remained poised in space—our

planet, far, far, heavier, is falling through this awful void."

"What sort o' stuff are you talkin'?" demanded Captain Sproul, growing positively white beneath his tan.

"We began to fall several minutes ago," said the professor, pointing to the indicator of one of the delicate instruments before him on the chart table. "The balance of attraction between the earth and the sun has become disturbed and we are plunging—"

"Into the sun?" shrieked Mark Sampson,

springing to his feet.

"No! no! Toward the earth! Toward the earth!" reiterated Professor Henderson. "Her attraction has proved the greater. We are falling with frightful velocity toward the sphere from which we were blown off into space so many weeks ago."

"I reckon I'm crazy," groaned Captain Sproul "I hear you folks talkin', but I don't understand

a thunderin' word you say."

"You can feel that the air in here is vitiated; can't you?" demanded Professor Henderson.

The boys had already felt that it was more difficult to breathe. They heard cries all over the ship. Washington White burst into the room, crying:

"Oh, lawsy-massy me, Perfesser! We is done bein' smothercated. De breaf am a-leabin' our bodies fo' suah."

The negro fell in a swoon, overturning the table and sending the professor's instruments crashing to the floor. The others, struggling for breath, likewise sank beside Wash. The lights all over the ship were suddenly snuffed out. Every soul aboard lost consciousness as, rushing at unreckoned speed through the universe, the torn-away world descended toward its parent planet.

How long they were unconscious none of the survivors ever learned. When they did finally struggle to sense again, it was with the sound of the rushing of mighty waters in their ears.

The Orion was afloat! She was being tossed upon the bosom of a wind-lashed ocean, and a hurricane, the like of which the two boys had never experienced before, was at its height.

Captain Sproul rose to his feet, panting for breath, but with his senses all alert. He shouted:

"The sea has rolled back again! What did I tell you? Up and at it, my bully boys! Get a sail upon her so's we can have steering way. Every ile barrel is full and we're homeward bound!"

The hatches were opened and they rushed on

ON A TORN-AWAY WORLD

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deck. It was so black that they could see nothing but the storm-tossed waves—not a sign of land. But it was plain, too, that they were no longer on the lee shore. They had plenty of sea room to work the ship and the brave sailors went about their usual tasks with cheerfulness.

CHAPTER XXX

AN ENDURING MONUMENT—CONCLUSION

BUT Professor Henderson and the boys, as well as Andy Sudds and Washington, gathered in the chart room. The aged scientist was confident that during their period of unconsciousness the fragment of the earth that had once been shot off into space, had returned to its parent globe, and he spoke cheerfully of their probable escape.

"But have we descended into the very place we left?" demanded Mark.

"Scarcely probable," returned the professor.

"Nevertheless the ocean has returned to this spot," declared Jack.

"There is water here, yes," admitted the professor. "We are afloat, that is true."

"And is it not the Arctic Ocean?"

"Later I will tell you. They say there is no land in sight. I believe the bulk of the land which was shot off by the volcanic eruption has now sunk in this sea. What sea it is we can tell soon."

"When can we see the sun and take an observation?" queried Mark.

"Perhaps finding the temperature of this ocean which surrounds us will tell us something. However, we must have patience until this bitter storm is past."

And this did call for patience, for the hurricane continued for fully a week. Meanwhile the Orion ran on under almost bare poles, and in a northwesterly direction. This course, Captain Sproul believed, would bring them to Bering Sea, and their homeward route.

But a vast and amazing discovery awaited the hardy navigator of the whaling bark when the wind finally died down, the clouds were swept away, and the sun again appeared. Professor Henderson appeared on deck, too, and calculated their position side by side with Captain Sproul.

The latter's amazement was unbounded. His calculations, no matter how he worked them, made the position of the *Orion* 148 degrees west of Greenwich and 49 degrees north.

In other words, he was far, far south of the Alaskan Peninsula. During this awful storm he had traversed (or so he was bound to believe) a long stretch of the Arctic Ocean, Bering Sea and Strait, had passed the Aleutian Islands, and was now more than a thousand miles south of the position of the *Orion* when she first became stranded.

The professor endeavored to explain to him again what had really happened—that the frag-

ment of the earth on which they had been marooned had plunged into the old earth again, landing by great good fortune in the empty sea between North America and Asia—in the North Pacific.

Such an explanation seemed utterly ridiculous to Captain Sproul, to his seamen, and even to Phineas Roebach. They were convinced that Professor Henderson was in his dotage. They would rather believe that the *Orion*, sailing on pretty nearly a straight course according to the compass, had traversed this enormous distance during the hurricane.

The professor and his young friends, however, had studied too deeply the mystery of this astounding affair to be mistaken. All the phenomena of the experience had been noted by Professor Henderson. He had the material of a most remarkable work in his notebooks, and that volume will soon appear to delight the scientific world.

Meanwhile the *Orion* changed her course and ran for San Francisco to re-provision. She had a very valuable cargo of oil which she would later take around the Horn to her home port, New Bedford.

At San Francisco, however, Professor Henderson, Jack and Mark, with Andy and Wash and Phineas Roebach, left the ship. Roebach was

to report to his oil company and probably return to Alaska to continue his search for petroleum. Our friends started overland for home, stopping off at the city where Dr. Artemus Todd resided to explain to that savant the reason for their inability to secure a single specimen of the chrysothele-Byzantium, which herb the doctor was so confident would be of incalculable value in treating patients suffering from aphasia, amnesia, and kindred troubles.

Perhaps the disappointed doctor was not entirely sure that his friend, Professor Henderson, and his comrades, had gone through the strange experience which they recounted. But a few weeks later several vessels reported sighting a new island in the North Pacific, south of the Alaskan Peninsula. On this island men who landed discovered a colony of Kadiak bears, some Arctic foxes, and the remains of vegetation which had never before been found south of the Arctic Circle.

This discovery created vast talk among the geographers and scientists. An exploring party was sent out by the Smithsonian Institution to examine the new island. It was pronounced of volcanic origin, yet the formation of it was not of recent time. There was on this island (which contained several square miles) the remains of a glacier, and in the ice the party discovered the

wreck of a wonderful flying machine, which had evidently been built within a few months.

Of course, this was the Snowbird, the aeroplane which our friends had been obliged to abandon. But by that time Jack and Mark had built another flying machine on the same lines as the one which they had lost in the crevasse of the glacier.

The professor proceeded to explain and prove all this in his book; but there will always be certain doubters. Washington White, however, was more disturbed than any of the party over the fact that everybody would not accept as true the scientist's account of their wonderful voyage on a torn-away world.

"De stupendous and unprecedented gall some folks has is suttenly beyond comparination!" exploded Wash. "Dere is folks dat ain't nebber been to Bawston, eben, dat dares say dat we didn't go ter Alaska in a flyin' masheen, an' den fly away wid a piece ob dat kentry inter de cimcumambient air—droppin' back on de same w'en we'd got t'roo wid it, an' landin' right outside de harbor of San Francisco. Dey won't belieb it at all, not eben w'en I proves it to 'em."

"And how do you prove it to your friends, Wash?" queried Jack Darrow.

"By Buttsy," declared the darkey, gravely.

"By the Shanghai?"

"Yes, sah. By Christopher Columbus Amerigo Vespucci George Washington Abraham Lincoln Ulysses Grant Garibaldi Thomas Edison Guglielmo Marconi Butts."

"And how do you prove it by Christopher Columbus And-so-forth?" demanded the chums,

in chorus.

"Why," said Wash, rolling his eyes, "I done tooked dat rooster wid me in all ma trabels; didn't I?"

"You most certainly did," admitted Mark.

"And a big nuisance he was," added Jack.
Wash loftily overlooked this remark. He

said, confidently:

"And I brought Buttsy back ergin; didn't I?"

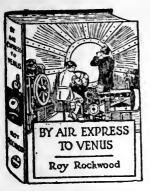
"You did. He's getting fat and sassy right now out in his coop behind the bungalow."

"Well den!" cried Wash. "I done took him wid me, an' I done brought him back. Wot furder elimination ob de fac's does dem folks want? Don't Buttsy crowin' away dar prove it?"

And Washington White walked off with his head held very high as though he had made a perfectly unanswerable statement of the case.

And here we will say good bye to our friends, who had so many thrilling adventures while drifting through space On a Torn-Away World.

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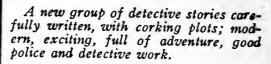
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